AMADORF

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PAPERBOY

Exclusive Player's Guide

pin -7, 6.50

NEXUS

Win Reporter's Kit

SIM SPECIAL

Southern Belle Solo Flight II

Jet

Golf

Construction Set

REVIEWED

Starquake Spindizzy Cauldron II

FREE Type-ins for C16 & Plus/4 Commodore 64/128

WORLD CUP CARNIVAL: SUPER PRIZES

If you go down to the woods today...
you're sure of a swift demise...











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effers

A fan writes

Re A made-up letter (Feb) How can anybody say your magazine is fab without being a professional boot licker? I don't think your marazine is very good (get away - Ed). I also think it's becoming worse. I just saw an issue of it in June 1984 Soon

alterwards I took out a subscription because I was quite impressed. You've managed to regress a lot since then. With the arrival of Hot Shot Mike II will leave you to mess what I would call him) my opinion of your marazine lell. Who the merry hell wants to know what Kevin Toms was doing in another magazine.

Now, to deal with your team of reviewers who so by that sophsticated name. G-Force Who chose that name? How old is he? An uninspired name like that would have sounded right to me when I

was seven years old Actually, your games renews have Improved, more or less, except for Kevas McMahon ripping every programmer's ellights to shreds. except when he would end up being shouted down by a thousand

sansfied gymens The reviews I read of Accusion's Music Studio and Island Long/Frebrd's The Music System were terrible. Disorganised, awkward, uninformative and inconclusive. I expected at least a table showing marks out of 10 for music editing ease, sound editing ease, leatures, and value

I think that's enough complaints, so may I make a lew suggestions. Fewer games reviews. Only publish reviews of the best games. Scrap G-Force, or choose a slightly less. ndiculous name Scrap Hot Shots or stop the verbal seware which Mike Pattenden manages to spew out Shoot Mike Pattenden Offer a better prize for the 'star letter' each month. Don't do any more

articles about 64's in pershops and 1 Getting killed at Evelyts by chemists I hate them (Sarry - Ed), include a poster (large) inside the marszine (how lorre? - Ed) like in rock magazines, but of programmers of something of intercent and use Daniel Prociós

Adds Ababa, Ethiotus Why are you still reading the mag? There's obviously something that keeps you

coming back month after You imply we're childish and then in the next breath you ask for marks out of ten for everything, Sad, You want olnups of programmers. Strange.

As for star letters you'll notice there is one - and It's not yours. P.S. Mike leaves you to guess what he called you.

Hype Hate

m writing in dispust at the software house Telanum and also the fact that I was very loothardy in spending £19 on what was meant to be a pood rame

Nine Princes in Amber took only 4 hours to complete from start to finish and then I spent about 30 minutes getting different endings to the game which was very easy and didn't make me much happier at the fact that I've wasted £19

You can liken the game to Adron Mole, all you need are the correct. answers or ask the correct

questions at the right time and hey

Telanum have produced some rood adventures, 451 and Rendezvous with Rome to name two but this offening has left me with a sour taste in my mouth. Never azan will a Telarism adventure find it's name in my cheque book Here are some dues

monsters then "Call Sister" Use the "R" command whist fighting Julian Don't kill lulian you can tie him up i

you like If you have your eyes burnt but then the command "Wart" restores



DANGER - SOFTWARE SUPER HYPE RECW TA

If you accept Bleys offer to go to his camp it gives a better finish Benedict is very forceful and may end up ruling Amber il you don't react muck

Kas Evelyn, well you may as well get some pleasure out of this game suggest in future you print this lose I've done next to hyped

SOFTWARE HOUSE SUPER HYPE AT WORK ON THIS GAME Malasten Hamden. Stomford Lines.

Why cheat?

What is the point in buying a game and freezing the sonce collisions etc. so you can cruise through the various screens with ease? No competition! it's cheating! If you are to say I ve not past level whatever, you've not to do it werhnur aufs like Robtek's Game

May I also say what a great magazine you have I was most impressed by G-Force's reviews, Tammy's Tips, the free type-in programs and the compeupons But why not print what each line of the program does, and what the various neices do? Why not have more interviews? With the programmers as well as the soltware houses. The interviewed in a marazine, was lelf Moter What about the others? Robert Olsen. Morlow, Bucks

Your request is noted.

Gridiron gripe

I must congratulate you on your April review of Superbowl, as a devoted fan of American Fontball (I am an L.A. Rams Ianauc) I thought your review was excellent. Alter reading your reports I couldn't wait to get my hands on a copy of this game, unfortunately all the local stockests are panetakingly slow at stocking new programs

The stores are Menzies who told me when I ensured "No idea when g will be in stock " Boots comment "Never heard of it!" Woolworths "Super-what?" The great and wonderful Woolles are about six to non months behind the omes as far as soleware is concerned

I was thinking of ordering an extra copy of Commodore User" to keep them up to date on what is happening in 64 land. I also asked them why they don't stock any

Our letters bag is bulging with your commants, criticisms, quaries and praisa currently so wa're expanding our lecters page. Every latter printed gets a covated Commodore User T-shirt, but we've added an extra incentive - the chance of winning a chart topping game for the star latter of the month. So get your nan and naper out and write in to

Letters, Commodore User, Priory Court, 30-32 Farringdon Lane, London ECIR 3AU.

Mastertronic games, and was asked 'Who the hell are they!'

On the subject of Mastertronic why can't other soltware companies (1) S Gold atc) Jollow their land and give us an honest and decent price for earners, instead of varely inflaced prices for super-hyped games a lot of which turn out to be very disappointing e e Flite s "Commando"

Ayr. Scotland

Super Bowl was late which explains why many stockists probably didn't have it.

Hot to trot

I thought readers may be interested in my suide to whar's hot, and what's not in the computer soltware world

Hot: Ocean, Egyx, The Eriolog, Cammodore User, Undium, Chris Harvey & Neil Bate, Activision Martin Galway, Zoids, Fielic Nielic. Melbourne House, Ballblarer

Not: Jell (yawn) Minter, Domark, The Young Ones, Beyond Oucksiva, Electric Dreams, Zxxo. CRI. Jet Set Willy ISII. Soy vs Soy II (boning) Analysolt Outlaws, Law of the West and any other western with exceptions. Wild West & Kana Kames Forstor

Sittingtourne, Kent P.S. I loved Ken McMahon's review nl Ouncholog's Double White on March T-shirt M

See, someone likes you Ken.

Pole axed

I just couldn't believe myself when I saw that you gave 'Yie Ar Kung Fu' a screen star review. How long did you play for! Did you get up to 'Pole'! Because il you did I don't think you would have given it the review it got

This is simply because Pole is extremely hard, together with the fact that it has a bug II you get too close to him, he traps you and drains your energy until you are knocked out. It made me want to smash the computer, I was so Irustrated

Why can't Imagine test the game before they release it! I'm sime this 'feature' wasn't meant to be there I know they only had something like a couple of weeks or so to write it in but soft? Jamie Philips.

Garfarth, Newcastle upon Tyne PS Did you know your offices are than a 64

a next to a well known Parmasan rheese makeral is that where G. Force set their energy from? Commodore User is next to a nith actually - that's where we get our energy from. As for Pole - that is not a bur.

Star Letter

for soloware tapes which are sometimes a load of "@"@!! Mastertranic marries to produce good quality programs like finders

and really mood programs like Moster of Mane for only (2.99 which is the sort of game you'd expect to pay £7.95 plus for Why can t U.S. Sold etc. all do the same! The soltware companies are always complaining about paracy, but if they reduced their once to a liver or less there would be less capying, more tapes sold and therefore more

Also why do '64 owners usually pay a gold more than Spectrum owners expected to pay even more than rape users? - about the only company who doesn't do this is Commodore, whose price is usually the same for disks and tapes. Much The soltware companies are too greedy expecting us, the people who keep them in business to lark out a well-earned tenner for too

I think the soltware companies have got a lot of answering to do So take heed U.S. Gold and others and take a leaf out of Janathan Tinker.

The big guns aren't happy about Mastertronic which Is why they're getting them out of the charts. Perhaps a representative from U.S. Gold would like to reply to this.

Plus/4 Paranoid

Why do you criticize the Plus 4 so badly What is wrong with it! It has an excellent range of software (with built-in soltware) 64k RAM a large range of perpherals and it is more popular

No other magazine criticizes the | 4,1, line 140 to COLOR f.1 and Plus'4 so why should you! Is it because you don't know a good computer if it came up to you and punched you in the lace or are you. just plain thick!

The Plus/4 is just fine for programming but most of us would like to do more with it. So tell us more about this excellent software and large range of peripherals - we'd laws to know

Plus Points

I am the proud owner of a Commodore Plus/4 I was recently browsing through an old copy of Commodore User when I said to mysell. "Where's the C16 and Plus'4 programs! " I was releved to find one room on the Plus/4 But in April's issue I was

astounded to see five reviews! Yes five, all to the Plus 4 and the C16 (Also a review of "ACE Many thanks to all at CU for the

incerest shown in us Plusi4 owners. Richard Chatham.

Listening In

With reference to N. Cavale's letter (April 1986). There is another way of listening to what is loading rather than taking a piece al your tank recorder agart. Smaly TV/montor and type in POKE 54295.15 Then load your program program being loaded. However, it.

which have misse while leading Tick-Tock

Colm Houlinan,

does not work on last loaders

I am writing to inform other Plus-4 owners that your Type-in Program in the April issue that was exclusive to the C128 works perfectly well on our much malened

All that is required is alterations on three lines as follows -Change the color command on ine 40 to COLOR 0.2 COLOR the sound command on line 255 to SOUND 1.1000.5

Then all that is needed is to type in the correct time when instructed and press RETURN Peter James Smith. Burninghom

Fox Hunter

You must be pretty hard up for thines to write about on Commodore User In the April save, on your so-called 'Hotshoes' gave you not only mention the new Samantha Fox Strip Poker game but you include a photo oil her with a typically sexist and smirry cancion. Do CU readers really enjoy your boycle shed humour?

What do I find when I open the May issue! Surprise surprise, yet another story and picture of the algrementioned Miss Fox - this time with a tasteless reference to harry armores. This is not surprising since your editional team consists totally of men

Samanthe Fox exploits her body to make money but what really gets up my nose is that people like you eagerly sump on the bandwagon to give her even more exposure. What will you be putting on page three

next month? Linds Teames Reckenhom

It's our lob to report what's happening. Sam Fox is big news whether you like it or not. We agree that Strip Poker is tacky. We disagree with the exploitation of women and our captions were designed to send up her and the geme's creators.

If you don't want to see nude women, don't buy The Sun there are olenty of alternatives. And that goes for games too. By the way, next month's page three will be - The Contents Page (nudge, nudge, wink,

We also enjoy bicycle shed



Letters, Commodore User, Priory Court 30-32 Farringdon Lane, London ECIR 3AU

wink).

Branson expands Virgin

Jet setting pop music and airline business tycoon Richard Branson is making a further cash investment in his software company - Virgin Games.

His company recently announ and that they would be taking over New Generation and Leisure

Branson told CU in an exclusive interview "the computer games business is here to stay and Viren will be a major player in that business as it develops both in

New Gen are best known for Troshman and Joneh Bomngton

to program seven rames for Leisure Genus will work on

and Cluedo as well as developing onemal arrade rame to be

bunched at the end of 1985 Meanwhile Virgin's own snaf-like awasted Dan Dare and Shogun has speeded up considerably

Dan Dare will be out in Aurust". 'Dan Dare has been severely

Virgin under the direction of chief conversions of their popular board game otles -- Monopoly, Scrabble

Alexander said "Shogun will be launched on the 26th May and

Squesh and have been contracted delayed." Alexander admitted. In the running for the Ugliest Printer of the Year

Award is the this little monster from Citizen. Designed for all Commodore home computers. It prints in two solours, asing typewriter ribbons and standard 4 insh wide paper. Other features include Commodore and dot-addressable graphics, Epson tontrol codes and expanded print. Short on good looks, it looks a snip for £50.



but I can assure sames players that it is some to be well worth the wast

Publicity master Branson who is numoured to be a Tory candidate Flerring - intends to make a personal appearance in a forthcoming Virgin game later this year Verna Atlantic Challenge will

INI

Green Beret, Undum, Solo Flight II. Commodore User Andrew Braybrook, Dave Coller Simulations

Cheapo Games Winter

Half Man Half Brazale

enable the sames player to captain

business empire at the same time. Described as a cross between a simulation and an arcade game it is thought to involve trans-Atlantic telephone calls with pop stars like Boy George and Phil Collins as the yacht is buffeted by greantic waves. Sounds fun

OUT Way of the Exploding Fist, Bounder,

Elektra Glide Country Living Jeff Minter, Tony Crowther IBM PC's, Vic 20's, and ZX81's

Adventures Clive Sincher

Sigue Sigue Sputruk (were they ever



COMPETITION

We asked you to enswer three simple questions to win a copy of Geoff Wheelwright's book "The Hackers Hendbook". The enswers were Wargemes, Duke of Edinburgh copy each:

Nick Mershells of Newbury, D Edwards of Sutton Coldheld, S Gesser of Staffe, John Paten of Dublin, P Welker of Gransby, A Hunley of BFPO 42, GP Hart of Skelmersdele, BR

Corby sold

Two years after it opened in a blaze of "We're backing Britain" tub thumping Commodore have put their hi-tech computer factory in Corby up for sale.

The computer manufacturing plant in the East Midlands is one of the most advanced plants in Europe and it is expected to attract a number of miscorned

Six months ago Commodore

switched the manufacture of 128s and 64s to Germany Commodore's nev spokeperson, Luonda Taylor Young told Commodore User that there would be no further law-offs of staff at Colby

The present administrative and servicing facilities at Corby maybe continued under a leasner

serreement with the new country of the plant The sale of Corby happens at a

time when speculation on Wall Street is knowing daily about the company is still losing huge sums of money, have laind to serve a lacity with their bankers, whilst doubts are increasing about their wonder machina - the Amira

Chess moves. Audiogenic has, at last, introduced a version of its Grandmaster chess program that's specially designed for the Plus/4. Apparently the aforementioned had trouble running the C16 version If nosts (8 95 on tage and fearures things like auromatic queening castling and en passant ren levels of play. 'hint' function. game and taking back a mor More details on 0734 303663

Anatomay of a 128 At lone last a really for the 128 Called The Anotemy of the Commodore 128 if's a Data Becker book published in the UK by First Publishing Not exactly rheap ar £12 95, you do ger 480 pages and probably all the information you'll need including a useful ROM latens Also In the series, there's Tricks and Ties for

the CI28 (also £12 95) described as "'s tremendous tressure trove of programming fechniques" both In Basic and machine-code First

Telly Connect: Sabre device that lets you ronnect your 128 to a TV set and get an 80-column display - monochr only, though Ir's railed Teleconnect-80 and nosts £14 95 Arrording to Sabre, " even on the worst relevisions the deplay is usually perfectly readable" You ran ger in routh with Sabre at 28 Askerfield Averue Allestree Derby DE3 2SU

Head Banger: Robtek has just announced a disk that claims to realign the head on your 1541 or 1571 disk drive drive with a screwdriver Called the Maric Disk Kit. et costs £19 95 and also includes a speed l'est program, a head cleaning disk and a book of smple mantenance rips. Robcek on 01-847 4457

Green Fingers: Do you know what plants will and won't grow in your garden? Find our (in the nomfort Publishing, the people behind The Planter's Ginde Park, a program for the Commodore 64 The sude lets you input the randitions of your garden and select all the plants (from a list of over 1,000) that will grow there, together Ir nosts £14 95 and includes The Flanter's Guide Book More.

Shattered Dreams

A scheme by CRL to get children to sell games software in their schools has been shot down by GOSH. the Guild of Software Houses. which was formed to help

regulate the industry. The Dreomseller scheme. advertised in Popular Computing Weekly, was to revolve schoolchidren taking orders as their own schools, for eames

which they'd then buy from CRL at a discount - so they could 63 95 on a 69 95 rame Although distributors and

retailers got very upset about this 'sales stunc', CRL's Gree Duffield is Unrependant. He maintains that encouraging kids to become sales reps was not the main idea. "We our products from lads

themselves, what they like and don't like, to help us produce what people really want' He clams that application forms

needed narrental coosens and that kids were under no obligation to buy goods from CRL, nor would they be indebted to the company Duffield reckons that out all over 300 rephes, he got around 80 potential Dreamsellers. Now he's looking of other ways to get "leedback"

Cradling a bottle of champagne is the UK's supreme Elite champian, Calin McLinton fram Belfast.

Colin beat eleven finalists who had qualified in Firebird's manth by month campetition and naw goes an ta compete in the Elite World Chompianships next year in New York.

Pictured with Calin are the game's two designers, ian Beil (left) and David Braben, Herbert Wright, Firebird's publisher, just gets in the shot on the far right,



COMPETITION We reckon that just about every C16 owner in the country - in the world

- sent us an entry for their chance to win Elite's Commando for the C16. And most of you got the correct enswer of B, A and A Still, we had to restrict the winners to 50. And here they are: Martin Bigg of Laics, Lee Jones of Devon. David Dunnings of Sussax, Craig McFedden of Sunderland, Andrew Russell of Gwent, Devid Black of Gereshead, Ashley Bigon of Kent, Des

Yorks, Derren Proffit of Notts, Andrew Wilsing of S. Welez, Paul Joseph of Wilts, Marcus Comiev of Wilts, Jonethen Verry of Glove, ala Soink of Steffs. Pobert Sherwin of &

Omar Hussein of Herts, Allen Coin of Blackburn, Darren Flatcher of Walself, Ian Best of Words, Gerry Spence of Sterling, Alan White London, Kelly James Bowses of Bucks, Christopher Black of Hertz, Daniel Kelly of Glasgow, Andrew MacNell of Ipswsch, Robert Stucit Johns of Sheffield, Torrance Fooden of Hamel Hempsteed, Robert Spoies of E Sussex Agel Willems of Suffolk, Ned Rose of Corby, Darren Howers of Warwick, Timothy Seville of Crawe, Trayor Flunder of Suffalk, Lee Holden of W Midlands, Haill McDermot of Mancheste



LIBETTO oniu 9.99 STATE WHICH MACHINE

KU//

This is an artist's impression of Sigue Sigue Sputnik. Pretty horrible really late' let' That's realism for you to popped through our letterbax's realism for you to promote tha group's second single Twenty First Century Boy. Tony Jamas mouthlylece's for siaggy old glam copylets Spit Spit Spaznik is apparently a computer games freak. Wow Bring back Marx Bolan.





Why are we printing an old pictura of Marcanary you're wondering! Wall we're not. Plus4 owners dance around the room for this is indeed a version fit for your micros and it should be in the shops right now, price 62-95. Also comiling shortly is the targ escape kit from Novagen. It contains masses of maps and information about the game, price 42.

CRL bear the distinction of bringing out one of the first games purely for 128 owners. It's actually an enhanced version of thair Rocky Horore 5 how bit with high definition graphics, new sprices, more locations and better music. It all sounds pretty impressive and It'll only sat you back rilea pounds. Smake ready to do the Tilms Warp all over again.



features free and stop like from rawaging the Allied shipping. The game features the usual historical accuracy but promises a strong arcada sequance which lets you lob shells at the who.





This is an early screen from Elite's forthcoming Ghosts and Goblins conversion. The mammoth Capcom game is due out shortly price £9.75. Look for a first review in Commodore User.



Can ony of you remember the Tubulor Bells album (muss ganeration circa 1973)? Would any of you like to hour it played by a Commodare 44 white the commodare 44 white the commodare 44 white prevent ond lease turn effects which you will be the commodare 45 which you will be commodare 55 which will be commodated by the commodate of the commodate of



Surf's up with the impending release of New Concept's Surfchamp. Originally released on the Speccy it's now been convertad to the 64 for the summer season. So wax down your micro and make ready to rida those rollers breaking on tha living room floor.

DYNAMITE SOFTWARE

With the March 1999 of the According to the According to

ee it milliog to be of the beginning of

BYMER DOLLAR STANDARD CS NO 10 MCBIT CHECKTONDOS EZE 90 BLTT BASIC COMPTIBLE SOLPT SUPPRESSE STATE AND BEIND SWANDHALTER CHEST (77 BEIND SPANDHALTER CHEST (77 BEIND

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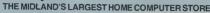
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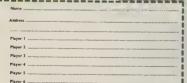












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in Besse's latest licerced spic 'V'. the world is yet ngain under thinns from alien beings who went to rule Earth frownl. Mike Donovan has different sceas and drexies to act en and to the visitors' avel dames, so he sats out to infiltrate and destroy the scaly reptilions' mothership

Once on board, he has no immediate problem, that is, how to open the herger depts, so that he can explain the rest of the shin Lockey, he bought a Communicates in the duty fren shee in the craft that took him to the aliens' mother ship. and it can be used to crack the codes which lack the doors. Once he has crecked the code, he has to inshout of the honger as the doors only specified in the inclinitions, and stay oneo los a few seconds

He is now out of the hancer but then receptibers that he had to plent his ship and retner to north, where an explosive in there, and so has to reased the procedum of ensuing the dones, and then rushes in to plant an explosive, and reshes out again, before the doors close

Once got of the hangos, Make searches the ship for important locations to clace his remaining live bombs. He finds a laboratory. 'That's interesting', he thinks, but the deors ars coded The Commonquiter comes in handy again as he discodes the

around and notices a competer and simmbles ecross part of the formula for the field Dost (which is possenors to the elens) 'That's interesting' he thinks and otney it area the Commongular then Issues

Donoven is quietly writing sions. when a small alven sobol comes fivene through the ax, so he hides in what he thinks is a carebrard. He soon live's and that the conboard is a transporter and his has been taken to another place (rection) of the shus lethis section his notices given senning on the floor, and decides to stand on one Suddenly the molecules of his bady are moved around a bit and he annoes in different surroundance

That's atternsting' thinks Mike, and wants another on lights about your mission. Mikn?l. be sushes off gleefully and plants some more explosives, (psychol !!) Towards the end of the came

when Bonovan has plented his axplosives in the free key points. camples and the Red Durch formale has has to return to the hanger, board hn is amuted by his friends and they ell live happily every often

V is a very complicated game. there are hardly any instructions and you are not told what the senas

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will villengeres Dison and Lydie will be returning to the small screen with a brond new series in the

The last series anded with ane saca ping from justice after attempting 8 coup. a full report and a Players Guide to V. the competer

ment. The graphics are of a very high gnality and animation is socially asseculty the compressite it demands a consensable level of common sames to play this name but should just your collection if you empy a good exceds advantage with plenty of action and problems to

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Bishard Brudhury Overall

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Information screen.

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When Samdiray clayes that it is a "30 name of skill" it's not kedding. It's a hall of a rhallmone After continual practice my progress was still as paminly allow as my performance as dismail on when I

loaded the name on. The name treation is not coolly warth gamp into Spindizzy is a 3D skill test along the lines of Marble Madeuss It usn't a straight coop like the disastrous Givoscipe through. there's plenty of despendity and depth

then as well. Like Gramin's Sounder the riles is smole You guide an object - you can choose a shape light a ton. tnengle or ball - round a setwork of

If all that wasn't enough, other hazarda lika spa and phances of view on that you can't say what you're doing are oil arough to bave you take old to the fonny form accompanied by two men in white

Rue gver the tile with markings to of the piliars is



acreens should keep you there for onds some time

Making e men is en ebsolute necessity if you want to get souwhere You can approach an area from more then one directors. You'll have to do this because for m some places your sphere will deappear because of your angle of yew.

coats. The names three hundred plus, are owen an entire los a motochrome wew if you so desire to are what the same would look like if unn were a dea

> Sound is minimal apart from the odd ping when you collect a prival or touch a lift or shape trie. I must adent same sert of background note month have improved it, but I'm plad the templetion to shove a time of



A really sasty seroon this ann pleaty of space bar pressure needed here ged that all rests time

A mysteriaus screen - there's lats of tiles you con maye aver te octivate changes elsewhere is the game.

Nat too bod this see - save time on this screen.



blocks to collect sewels. The natwork is of course, wickedly designed so that the uswels are messadably placed around. Your roots is a perilons mixture of slopes, geps and



narrow ledges, Margins for error are smell and as you negotists your way around the system the slightest sly will send you harting min spece. If all this ign't had enough the clock ticks away whilst you struggle to complete the may. Collecting jewils gens you tan seconds sect time, but falling aff the adparentits m energy hamp drawed with a resultant further time loss. Using the space ber to slow yoursell down is often neavestable but the effect is only to speed no type loss. The dirty

rotran Est@***



Just how do you get the iswel ge the grich?

Soundary's graphics are escallent. was received Propremmer Puni Shiries most be The 3D effact works perfectly and ese mean son af a byte to put movement is smooth and asset. All something like this regulther layouts are colonrful although you Mirka Pattan far

Graphics 1 3 3 4 3 4 7 4 9 13 Sound 1 4 4 4 4 5 7 4 4 12 Taugheess Endurance 1 2 4 4 8 8 7 8 9 18 1 4 4 4 4 4 7 4 4 18 Volue



STARQUAKE

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Price £8.95 Alter cleening up with Standucks on the Spectrum, Staptan "Wicards Lar" Crow brings the his beme to the 64.

Massage has just renebed earth of on unstable planet amenging from a black hole at the back of the netaxy If the core of the planet is not reboit it will emplode cansing the Whole universe to ou "KA BORME"

That's a Stersonks You, as B.L.O.B (a bio logically operated being) are chasen for this mesion but have you gut what it takes to complete this live bendred and twelve streen arcade advanture? You start the game to the top of the planst next to your ches It's a

long way to the planet's core so you will need some transport. A "Space Hopper" would be ideal if you could find one The anables you to fly, as wad on give you super-powered bolists which are assumed account the nesties you incounter

It is boosted when you brime into one of the many 'readous' nacks



Fly above all hazards on your space-happer.

of the plenet core, as you can't pick these up when you'rs on the space

hopper Ectie lives can be wan by finding the speciels moned the mare

space looks' - for those you will nand a kny. (Ensy an't atil). Smesh treps' are designed to block your eath, but with a few Teleporte semble you to get around

pintforms and a bit of height, year're The ginnet itself hottle its own bozards such as spikey please which are dendly to the touch

Cutics may say this is just enother sugada neventuar but once you get hooked on a you'll begg to epprecents it's depth. Cetting Starquain yest enother orceds advantnia is Eka cafting Underm just neather shout-em-up, or the Pawn inst inother adventure.

Although the graphics are pietty Spectrumesque they are well drawn and have lote of versety, from



Every S.L.O.B's destiny - the plenet's core. Can you get this for?

scattered orqued the maze. When your energy runs out you will lose one of your five lives

Energy is snown on your flight board computer and is diminished by nastius. Next to that one two other bers showing how much emma and ofatforms you have left. Platforms. the volk only means of travelled udwards when you are widning a Space Hopper, These are very brande when it comes to picking no piaces

ducks but you will need the passwords to travel from one tocation to enother form of the teleports is right next to the plenet core? But can you find it?! Thora are also "Flexible-

Thingydous ', which look like Access cards and let you through security doors and into Dheops Pyramids. Once in here you can trade proces of the planet's core. However the Thineys will not list you through





launches of gropes stock to the cuiling to dead automasts lying on

Sound ic only average but it has many different tenes and good Fruity Numilton



Screen Scene







passage but where will you end up?

Out of the lift and on the space-happer.



The storting point - which way now?



Inside the teleport, now type a cade.

Steve Crow is smiling because he has just been presented with the Golden Joystick ewerd for Programmer of the Year by the Tube's resident nut — Jools Hollend.

and — Jobs millions. Steve designed Starquake end programmed the original version on the Spectrum. His portion Mick Strenge did the conversion work for the 64 — adding In e number of frills end improvements like the superior animation of the eliens, BLOB's blinking eye-lids, end the scrolling sorce clock.

The Crow/Strenge pertnership were also responsible for the populer Wizard's Lair geme that cherted last year. But despite Steve end Nick's obvious delight et "beating the big boys" there were no champagne corks popping in the Bubble Bus offices.

"We just went to Mecdonelds", seid Nick.
"We were pretty busy working on the 64 conversion at the time".

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It's quite a change from Cancords, setting in the cockys of a et flighter states are mentione though, there assess to be as much to de ITs state with, your or givens a closes of free pains moders: Doyfight. Target Strike, Fase Flight. Dence and Sciency (you'll maid to shell and one of the optimal stanery disks for this letter, I have you salest the

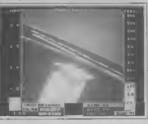
degree of difficulty, ranging from

Practice through Easy to Difficult.

The next stago is to choose the parkness account type, anthe on 518. Fighting fallows based on a safeal, or an F18 Hement on a Nimetal carrier, for an F18 Hement on a Nimetal carrier, Finally, you must arity you plant with appropriate wassers from the longs second as hand. At last, with ready to staced and conferent baselily emind M27 or M22 fighters in Deploysh code, or staced for a Country of the Country o

SIMSPECIAL

But before you start invents np. you'd better make sure you know all the controls available to you — and there's lots of them Autrent pitch and roll control, as well as missile and cannon fire, can be controlled by both keepboard and versitic All this



F-16 approaching

Graphics	-5	2	3	4	3	•	2	ē	6	14	
Saund	-	3	2	4	1	-:	7	•	•	16	
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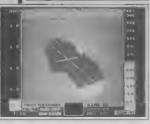
other functions are knybbard controlled. These include eject sequence.

alteudn indicator, inft/right/front/back view sninct, zoom and central towns or Unlittleck view of rooway Thern's elso throttle and afterbarn control, landing poor, orbrakes and radar unioff. So thera's a lot to catto grips with if you're going to complete a seccessful mission. The problem is remembering what does what in the heat of the doglight Let's ast amborne, I did a couple of Free Flights before going for e doglight mission in an F-16. (1) be honest. I found it all pretty difficult. The main problem was the lac between moking a command and thin aircraft responding to it. So I tended to overcentrol Cartardy nothing like my Concordo - that gives at ummediatn magonsn.

With experience, though, you develop the knack of entropating what's required to get the desired sessit. Having said that, I never succeeded in leading on the runway

continued over

F18 on carrierlanding approasis,





Meet CU's letest recruit - Concorde Pilot, Captein John

Hutchinso

Captain John normelly spends his time farrying the likes of Joan Collins and Rod Stewert around the world. In the last few weeks he has flown some different mis slone — namely Solo Flight II and Jet on his Commodore

Bafora joining Bitish Allways to fly Concouch be was in the R.A.F.—so he has had a wide and varied axpailance of flying. You can lead optain Hotchinson's prolessional view of the Interat Ilighe advantage from a round accelerably in Commodule Uses, Next month Ceptain Hutchinson checks out Acro Jat.

continued

with the F iS or on the corner with the F iB. Again, it was that timelag problem.
The simulator divisor's allow was to

By a true carrost before limit approach and landing. So all an opposite and landing. So all an opposite and a mental purchas of whate you think you are an islabon to beas. Instead, the technique seems to envolve following an arbitrary set of enstructions coleminating as a tens into 050

degrees for the lime approach.

Since lending was beyond me, the only way I could like to light enoties day was to eject from the plane — an extense measure but it worked

Still, I found no problems with takent, and the docylight and Target Strine games proved to be an attartisening and absorbing, I sensity macrod a subshallot flight to Belleran, I lead some success in hitting my targets and avoiding mostles fired at one thanks to this highly meanness with qualities of the Fight of picture.

metromentation available to you in a



Coatrol tower viaw

doglight is more than adequate and perfectly clear and easy to read from a pilot's point of waw, it would have been better if the flying central responses had more clearly approximated those of a real altered; As it stands it is a game which exercity properties of the pilot of

But don't let that discourage you.
It's great fun end as good as any combat flight set I've ever sten

Jahr Ratchesson

SOLO FLIGHT II

COMMODORE 64/128 MICRO PROSE/ US GOLD

Price: £9.95/cass

SIMSPECIAL

Micro Pross's Solo Flight II makes an interesting compension with Jet The most studing difference is that this is recti most at a gencine flight simulates Britzs than thit; g

simulator Better than that, of leatness very high quelity spiech. The flying costrol responses are more closely in lein with the mail thing and thin instrumentation is similar to what you'd find in a

similar to what you'd find in a Cestna 172 as inquivalent type. Ownstation with the airfeld is stalistically achieved and it is quite possible to fily a conventional cecual to possible to suppose final approach and tainling.

approach and fandary. I Happily for my cradibility, I managed many processful lendings and it was possible to judge the glide angle on appresent inscensibly accurately. Responses to control impacts from the joystick were immediate and conventional, and I was able to arrod any tendency to gestionated.

There are two basic options. Flying Praction and the Main Run game. And you can sinket dispise of difficulty in both sections. Flying Practice visions from clinar weather to windy conclusion to institutional flying with a low clind hase — there's even might flying.

Thein's also an instinctor Option where a Thying instinctor' godes you Right. Map of the Colorodo run — one of the toughest ossigaments.



Abova. Solo Flight II has been improved with the addition of speech and a new under a tanzar price tog.





available has ets own particular chellenge and there are navogates charles for all of them on the mescal Belore embanking on a light, the State map is displayed so that you can refresh yourself on the tarrain and levelmarks as most.

The game ands when year've defeared the free begs tyon can load mail at intermediate portio) or when you create. A nice feature is that after every sector, the State map will display the roote you've just realize.

Hound Sole Fight II to be a thoroughly entartaining and reasonably readistic Hight similator. It doesn't have the dynamic game place of Jot but it does have more realistic High's characteristics and resystemal childrens.

John Mutchinson



Our Concorde pilat preferred Sala Flight II to the flashler and more expensive Jet.

You can even fly aver Kennedy Caunty in Sola Flight 11.

varially through a complete circuit that's right, he actually calls to you. By this way, the Control Tower also talks to you on mail runs. Apart from the light instruments there are also landing gers and play position indicators, a five I gauge analysabotal information to show your bearing and distance from a ground station and seam an engine

overheat warning

Outs you've massered the practice model you go strepth and the Med Run quies — either as student or command pilot. The sem of this games to deliver settly five the games to deliver settly five begar of model the mess begs you lead and the means lady so cerve, the more aliquely your pilot becomes — to the point of the point of the practice of the practice of the point of the point

of difficulty. The Kansas ran is not and list with widn runways. But Cotorado swelves flying through rocky terrain from high ellottude antitudes. Each of the six States



Saja Flight II "realistic flight simulator".



When you get good try flying ot night.



Enderance Value

Graphics	_	_	_	_		_	_	_			
			-	-	-	-	-		-	-	
Saend	_	3	۰	3	٠	۰	•	7	۰	۰	10
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1 2 3 4 5 7 4 15 1 2 3 4 4 7 7 4 15 1 2 3 4 4 7 7 4 15 1 2 3 4 4 7 7 4 15 Overall

PAPERBOY

Elite's conversion of the Ateri System II cein-op is feet approaching completion, so we thought you might like a sneek proviow and a few useful tips of the game that's destined to be a hit on the \$4.

To that end we've pul legather a map of the first ten bases on Paperbuy's yound and got together with the paren's programmer? Bell A. Set end Chris Rerver ja predicts a player's goods that! you extend to the game. We've used a few pictures of the second game where appropriate to make things clears: So get makelilles.

THE GAMEPLAY

You are a cappeboy working a sevan day week datvaring to a street of subscribers. There are twenty houses and ten regulars. Fail to deliver to any of them or cause pay damage and you'll less their. Sentitudily you'll loss so more that you rate implayer will sack you and then mawspaper haddras conferent van screekings of "Worst year..." A chair record, and

the newspaper headlines pour craiss on you.

You have these possible routes on take such day, Easy St, Middle and Hard. The first is obviously be simplest uploon. There are flower heared and a wate interfering of intercursey my plot proper through Aller mattering that there's the Middle cover. Then is a popular size, the beause are grander and takes are more follows. Their meast come because or, prefuting, more metabas, Funify, this hands way takes it snother attage further Booser, butter and extraperly larvership.

Non-subscriber. Run through the flawer beds and breath as many windows as possible for a semulative bonus. Collect another bendle of papers by riding through flower bads.

Subscriber, Deliver stay out of trouble. First two

Subscriber — Deliver. If you throw a paper in the dag's hennel you'll wahe him up.

The road, if paperbay takes to this to avoid hazards on the pavement he'll have problems with care and roadwerhs. It also makes aiming a lot harder that for away.





Subscribers: De not ride over Howerbads.

Do not breek windows or any external fittings.

Just deliver to melboxes. There's a barys for direct hits.

Non Subscribers. Do es much damage de possible. Rate over ell flowers, breek windows etc.

You know who the autocribers ore because a little map shows you of the beginning of each day

DEED

You'll need to strike a balance between whizzug past everything and dilling slong. Be too less and you wan't hat enything you wout is hit. Resembles the disposed scroll menot you'll have to stagger your lot. Be too slow and a ewarm of base appear that you'll struggle to shake

PRACTICE

After each day's round your employer will send you on a practice run on a BMX style abstract course. The lides being that "Regets fine your rounds which you must but for lounce points. However, there's a system of sample to cross the streams you'll have to negotiate as well.

Non-subscriber couse os much damage as possible.

Another bundle of newspapers

Affather bundle of newspapers is lying on the povement. If ever you run out of papers and not know there's a mon-subscriber coming up you'll have to take the drastic action of losing a life. That way you'll start with a fresh load.

You connot drive through bushes.

Non-subscriber. Couse as much damage as passible.

112

£100

Subscriber, Deliver, Your angle of throw in Importent have. Get a too your alim.

The undertaker's, it pessions to the undertaker's to the undertak

The crossroods.
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f

The undertoker's. He's a non-subscriber, so wreck the place. Do as much damage as possible. Watch out for his hearse backing out. There's a banus if you cotch the humper with a paper.

Subscriber, He's a breakdancer, eveid his contactions.
Watch out for his wife as she pulls out of the drive. As the
week progresses she gets faster and faster.

Next-subscriber. A boy sits on the steps playing with a radio-controlled cor. This steers a loop and if it hits you, you'll lose a life. Get him with a well-aimed paper if you can.

Subscriber. Avoid boy on a ge-hart. On later days of the week he'll be joined by his brother. If you hit them with a paper you'll get a bonus, but mind the windows!



WIN BMX BIKE and Releigh team strip.

50 copies of the game up for grabs!

50 copies of the game up for grabs!

Recome a real Peoprison and some pots of monay — well a little money. Alfight, I know, delivering newspapem is about the worst paid job under the sun.

Anyway, if you win our febalous BMX blies the choics will be Anyway, if you win our febalous BMX blies the choics will be because it canse a world hour of the morning you could always past use the bits to impress your friends with some strunning Front Wheel Peopa and wheelfas.

The bits wa are giving away is a Releigh Team Burner of the type preferred by the Releigh team themselves. It is no of the least to buy it in your local Helforts.

The bits was are giving away is a Releigh Team Burner of the type to buy it in your local Helforts.

The side of the second with your properties of the properties of the properties of the properties of the properties.

The side of the second was not be all the yell you will look good and be selfs whilst you perform your ricks Elite on also chucking in a helmet and a Releigh team strip for good measure.

It is a price well.

How To Win

ames company ponsors a BMX bike sem. (a) Beyond, (b) suicksilva, (c) U.S. Gold.) Who is the current MY bike Franchile Which of the following not a BMX bike atunt. Bunny Hop. (b) The ck Walk. (o) The Triple

Auswere 1) Tie breaker ...

Entries should be sent to Brice Competition, Commodore User, Progre Court, 30-32 Ferringdon Lane, Londou EC1R 3AU, Your entry must reach us by June 15th 1986,

A NEW TAPE TO DISK SYSTEM

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AN YOU CAN SAVE 5 OR MORE PROGRAMS PER DISK № YOU CAN SAVE 5 ON MORE PROGRAMS PER DISK ⇒ PROGRAMS ARE LOADED BACK YEAY FAST BY THE BUILT IN FAST LOADER

OF MOST PROGRAMS WILL LOAD BACK AND RUN IN LESS TH

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10 POWERFUL BUILT IN MACHINE CODE MONITOR INCLUDES

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CEL RING

SOUTHERN BELLE

COMMODORE 64/128 **HEWSON**

Price: £7.95/cass Beck is my Genedlether's day, every year've leed some practice, you might bey used to dream of bacoming on annon drown Not the students chargernaless alsertics of redov's stelways, but the onet smoke and steem belchen mensters of

vedlerven. The Leader to Ruchess unlaway less based tactifaler cut off valve and was built in 1837 and subvided a quick renta from capital to coast antil 1932 when the line was electrified. The powel in their crown then was the Kinn Arthur class locomotives and Polmen Idaucy conches, tenning non sign balween London and Brighton, and ollocountrely named the Scothesis

case to try to heat the one stee record or handin a limiting goods from In each mode, you can choose which of the innina's controls you

gamels, and which are lisken care of automatically. The sessest mode buskes. More advanced drivers will be able to use the blower, wrectors

Thata are a multifude of controls The recolator lower is used to apply steam to the pistons, and can be thought of as englacous to a car's accelarator padal. The cut off valve Balla', Stothers Spines, north simply, is used to altor the responsant of

the cycle desire which steem is admitted in the evinders while the blower is used to mentain a

constent gas flow over the fire. This demost when controls the amount of feed water from the tender to the horizo Rosket whistin and the fun door are also controllable, although coal is fed to the fee entemetically end water level as well as water

All the controls are operated using the keyboard, but I didn't find that too much of a bassle as you rainly need to do anything in a hurry! The scient display shows the enone while around it are erranged the santal indicator, digital clock to little ont of place. I findly spendometer. condent indicator and the name of T' al may time will summon up a Imetable with expected and actea enival times, as well as indicating the next station you are expected to

Shortly after leaving Victoria station, you will pass Ballersea. power station on your left before crusing through Clapham, Crowden and all the provincial stations along There are many tunnels along the conte, and some him specticular

There are mony mistakas sossible

the most letal being demilment! Excussive sneeding will crush this while allowing the body to bod dry is niso pintty pasty. These and other comments on your oblities, together

The time toble -any readers out there in Bolhom, Eosi Croydon or Haywards Heoth?





Southern Belle slows. nd blows her whist as she approaches

II steem organ simpleter of the vary machine

Driving a steam mount is not

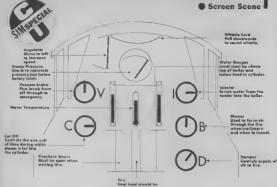
marfy as easy as you reglet magent. Airbough you don't have in steen them, sinci speed lends have to be adhaind to, coal and water have to be used efficiently, and the passenger's comfort and salety must

Your place in the proceedings is lookelly on the footplate, and your view of the engine's controls, the han eliesed and various landmarks is

most mnistic. From I'm opening menn, you can choose the type of somery you wish to montake from on easy opn-stop inn to a ituney including stopping at stations and obeyong singula When

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UICTORIR Bathem East Croydon Coulsdon Morth Earlswood Three Bridges 80 843 % 101 % 211 %



meintained within the middle third of total ronge.

with your final aspessment, should you reach Brighton in one piece, era accessed from the timerable mare At any paint during a inn, you can Save off, or Load, a previously Saved position. This is assiml, as the whole joniney can lake over an hour to complete in scal-lime!

Southwa Balle is a brillent concept, expertly groorsymmed and packaged, with clear concise instructions and historical notes. I've. custainly had many hours of aleasana others will become addicted to the beanly of steem through this package Well done Hawaged

Frad Raid

The London and Brighton

Railway company received permission to constitut its Budge Station to Bughton. In coaches were introduced by large ones, the LB & SCR line in 1837. The line was 1846 the two main route the company on a non-stop becoming part of the devised by Sii John Rennie owners merged to form the London to Brighton train calland joined with the line of the London to Bughton and ad the "Southern Balle" it the Southern Railway gave London and Croydon Railway South Coast Railway first ian in 1908 and con- the job of pulling the at Norwood. This gave a (LB&SCR)

s Te

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alue	5	2	1	4	5	٠	7	7	7	14	Overall

THE REAL THING



In 1923 the many railway

finued until 1972 (junning "Southern Belle" to its complete route from London In 1875 "Pullman" luxury under the name "Stighton Belle" (rom 1934), companies of Britain were was electrified in December

powerful and imposing 'King

Southern Reilway, In 1926

short grand The first Deelding banks new ground and was pricies! end challrenno Ceetiron 1 is pust a coor ol Jet Set Welly Jedgieg by Pelece's mesous ruleasus their s obvinesly

telent there, and it would have here

agod to see a majo arrajeel persa

Also I fail to medestend why

Palaca have made the nemokie

bounce it makes the some very

englavable and pegredicteble. In a game of this difficulty, this elimity to move accurately is seneural and that

cannot be achieved with houseing I

rucken even the most experienced players will feed this head to master Despite of thet, Coulding comss across as an extremely well polished is very spooky sed the prephics ere wonderfully dateiled throughout the game Asimatuse is elsu good, aspeciate the paragries end simply Nevertheless, I was less then keep to complete the game, probably beceese it's beyond the bounds of hemen cenability. Those of you who ere short of medies and want a

peme that lasts, this is the oes

CAULDRON II

COMMODORE 64/128 PALACE SOFTWARE

Price: £8.99/cass



The witches caeldron - place your spell Ingredients here ut watch out far that skeleton

Animatian and

excellent in

graphics are both

What sedists Pelece Suttware ere. After destroying helf my bresecels with the purseel Ceeldarn (probably the touchest sems of '85), they're back to lieish the job with Cae'dion II ... The Pumping Strikes Back

witch has belt a massive castle eed filled it with easters that me dil pet to get you - naterally. The castle has 28 tocations all ogenie with Dirty Dans crawing for your pempice juice. The about is to find the witch's



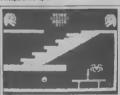
Something useful in the steeple at the top of the witches costle.

becreese it had an excellent mix of Belander-style shoot 'em up and Willy style pletforms - purte se othersmert ie those derk devs Soth the expensits graphics end the woederfully atmosphrus soundtrack have been matched, as have the weeked puzzles and the mind-numbing difficelty

The diligrest prize was the Gottlee Broomstick - the most powieful in the whole would Bet statead of ssien its powers for the cood, the witch used it to destroy all gumpkins irm, kema tria suitchet tusi le trut hero lashine, one pumpkin survived and eow it's up to him to restore tree gemokre-kind and rid the leed of the tyreenges has

Not so easy, though, because the





The bounding pumpkin had better bounce clear af the spiders - they're deadly.

Otherwise woe'll esed to be a total hedigam, sep e lock of her her and teks it down to the howels of the castle to operact the spail You'll This game is bound to cause a stig eeed six objects to help you sed e the indestry bet it won't took the these see be found in the hezardous boat half as much as Caeldino I did Nerther will it be remembried with hashues expend the costle

es much elfection

Coles Clarks

Elit

Graphics	\neg	2	- 2	4	3	٠	2	ε	٠	42
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Endurance	$\overline{}$	2	2	4	5	h	7	e	*	16
Value	7	2	2	4	á	-	7	٠	٠	16

Also lying mond the custle era

Commodore C16/+ 4 - £7.95 (cass)

GOLF CONSTRUCTION

COMMODORE 64/128 ARIOLASOFT

Price: £12.95/cass £14.95/disk I feel a bit selly sitting here in these check frocess, non-viece and white about — the applice are making a hale in the corpet. But you've gut to diese up for Golf Construction Set — it's so real, you'll want a coddy to carry your grystick between he'ds. There's two parts to this suppress.

you can neither plays on one of four top British concess, or you can dearth an 18-bish course of your own So left get down to the last tax — don't fouget the brolly. You can play at Westworth. The British Bross Sc Reacous and

sommy dails, and at four courses am suthentically designed. The only thing you can't do is go for a post match unifor with the object.

When you've set us course

conditions (wind, temperature, ground conditions), you need only a joystick



Step One: chame your club — use a wood because you're teeling off.

Was William

Step Twa: aim yaur drive direction on the fairway map (right). to play. All playme lags to fearly year later with a handless of 20% year later with a handless of 20% year later later

effected and yet can be a sown in the whole the lotter and lotter in matchighty mode every short count Each hole great yen delays at Each hole great yen delays at Beffree playing short holt yet meant at a plan parameter. First, cheese year che Savye celema i laude ge for the 3 weed. Tarks me by motione a creschart target on the termina plan on the regist of the termina plan of the regist of the attempts of the short. Throntic, All hong settly even't bed lawy so

the ferway - or you could be in the

rough, in the treet, in a bunker or in hear check the green for slopes and the water flow certainty won't be an gradents — or you'll sed up maning the green, not with a 28 handwarp a sittler you won't. Best beginners are more — And that's how it's doze — 1 is likely to allow a flow shorts, associative if more heads to play to try and get

servey to party user to story, appearant y may be chean difficult clubs. So you think the display of you get a to this given At each position on the 1 ferretry, you get a 38 peters from that of screen; looking from the ball of the control that green. This function is greatly and the server will be forever you must be server to see the servery unit ones the servery unit ones. See dy you've the timesey your in. As 3 dy you've the timesey you are noticed in.

On the green, a petter is enterestically channel for you (you get a sand wedge for banker shots). You have up the shot with the crosshare target name. Be coreful

grainmis— of you's and on you maning Asid Bart's how "if done — I?" If more holds to play to try and get yets historing flow. At the and if a round, you can save yets town on an analysis of the same and the same a

forget agence the control of pures

Step Three: set the angle of the club head.

N SET

you a huge rence of outrons nyon down to controlling the wnather even Jack Nicklans con't do [hat Bisplycelly, it menuges to non you all the information you need without moking the oction empossibly plottered. And the 3 B rises not me kell specking away from your sher and tending, with a couple of little bounces, right next to the oin - a my to behold.

Ruhdan finclak

Eighth hole at Wentworth and you've got a tricky to a shot ocross the loke

Design your own coll components' on the left



possible too, because Construction Set fets you design just short every iscer of a hole: ter off and green position, kunkers, trees and water, and even slopes and gradients. It's all invetick controlled too

lather like using a graphics Build your own Golfcourse.

Although four top golf courses STE STOVIDED IN 18 more to come) the program lets you design your own 18-hole contra and save it in diek or tene - so The Belfry's net difficult enough

for you? The idea is that you sould draw your focal golf caursa and get etme annak proctise in. It's program. Just choose from the set of uptions up the left and let yent imegination one wild. Why not annound the green with times and shinbs, or have it totally surranned with Water? Retter still when you eventually get to play the hole, you'll say all those features on

the close on 3-D screen.



by a pertain Rokart Mitsus of Helmaka USA in 1857 - hn was playing at the Mascle Hills Gell Cinb · Herry Lee Bonney, enother

American gots the record for ectring the most number of bales in one in his carear. He hit an incredible 57. · Micheel Hoke Anetin to esid to have hit the longest drive in

Necessary in 1874. It was 515 wat dw · Most mencessini entter owerd ness to A J Lowis

playing in Scenex in 1850. He took 156 patte en une gison and still didn't make the hole. An Anatralium, Bick Bukur, clerked up the fastest round of golf in 1881 when he finished inside 27 minutes - but he was hitting the bell while it was

atill mexico. Step Five: and thwork. Strength of shot depends





Step Four: Get your feet nicely into position.



Fraphics	- 1	2	2	1	٠	7	Ŧ	-		
iound	-									
	$\overline{}$									
indurance	_									
/olue	- 1	ı				Z	A		10	Overoil



TUBULAR BELLS A MUSICAL AND VISUAL EXPERIENCE





experiment with different clubs and the distance you can gars with them Be worned, though, yon'll nind a envetok with a pretty sensitive batton. That's at really, sport from the wind indicator and the slave In corms of majesm, imager Board

scores will on sadts. Club distances ere accurate and so are the affects of wind, gradients end hooks and sices. When you've mestered those rwn, you can sit back and watch as your tre-shot curves muestically towards the green

Sound officers (ball plopping down the hole, ball better the aml are adequate. Secring is very good too e complete scoreboatd appears after every hole to you know exactly brow

Niklaus ilees up far a birdle three. But has he taken the doweward slape into occouet?

LEADER BOARD

COMMODORE 64/128 Access/ US Gold Price.

£9.95/cass

£14.99/disk

It's a pity I played Solf Coortraction Set before polishing no my clubs for Leader Board It's like playing gitch and putt after the US Mesters. Still, Leader Board has lots to command it and aven scoops over GCS in a few \$184S. Untrin GCS, Leader Board is purely

e golf smaleton -- you can't design your own course Thore's a choice of font coreses innoe of them reali which look so elskn, it's a wonder why Access bothemd to give you a theses. More about those later. Starting policies include 1 to 4

players and choice of 'nevice'. emition" or 'org' levels. This em stranger because they determine what happens to your shots. As a novice, you're not affected by the wind, booked or sized shots in 'oro'

Like GES you get a full set of sandwork, sorry, sendwedgel. Unlike GCS, a player actually appears on scrinn wind swings and thereoks his

mode, they whole lot gets thrown et you - botter got the swear box rinks and you choose one for nach shot (lines)y aronch, you don't get a the green islands entitoutided by see. there are no brokers, on trees, no rough. Maybo all American courses are like this? Maybe the programmets just don't like trees? The only real hazard is wacking your shal into the water - that happens onthe requierly in "pro" moda.

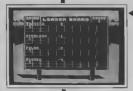
you end your pertners are getting on

Leader Board doesn't fere so well

on graphics. The courses look mostly

"Occasionativ you will find other smell hexards that do not oppens to be grass", says the mennel 4 nover loand any, though Could they be the type you wouldn't like to treed m?

To som no. Leader Board just



Leader Board's impressive score board

way up the course - mine looked Ikn Arnold Pelmer with ismbase The process of hriting sodts is leafy simple. When you've set the draetion of shot, you sat its strangth on a power motor by pressing and letting your firm batton go. That elso determines whether the bell will nock or sice. There's elso e upwer meter for the catting green.

It's ell e bit confusing at first but is mastered feely quickly especially since there's a downo-rense potion for processing on it also lats you



	celleet			
 αf	golfer	.,	swig	9.

dozen't have the ettention to doted and shot central of Solf Construction Set. If you're an ermphee 'Pro Colobrity Golf' weigher, Leader Board well probably satisfy you. But for the terten trouser brigade, it's got to be Golf Construction Set

Behden Enrich

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MAX HEADROOM

COMMODORE 64/128 ARGUS Price.

£9.95/cass

From his beginnings in a short mover of the same name. Max Headroom's ton has been meteous. There's been a hose his man miner show advents and interviews. After a while everybody knew Max was a real bloke desped up like a dammy isomy Mex). No wonder the gev's got such an abnowens too - too much too soon The finel straw is the game strati

Man Headrom is one of revolutionary, griginal and addictive The end result is a graduct which is a Setchootch of ideas backed up by medequate instanctions.

The same takes its plot from the film. You play comersman Edison Certer owen the tesk of linding the Max natsociality models in a TV station within six hunss. Since the film itself was haidly revolutionary rigging off its best ideas from the brilliant American Flagg series from First Comics - the game itself design, lifts, puzzles - shades of several popular games here

Moze-like loyaut of just one floor of the Radia station build Screen one sets van a latiu marzia



lefs: This displays the location of eny other human presence in the

Seant Allows you to check los rebot guards nsing sechicoms.

Exit: Allows you to best any room, Best: Allows you to recover your energy - shown as a percentage

Once you sten out the lift you enness as a little matchman armed with what troks like a box browne but is sudoutedly your camera. Moments after you make you entrance van wif he beset by several similarly drawn lunness who are onaids. If you're not snie what the hell to do another soon gives you the annortenty to sew several different camma angles of the floor. Movins from floor to floor is tricky

Nice graphics and tricky puzzies in Max's game.

> because each two you went to on somewhere you have to crack the Masted lift code. You have to reverse four notes pleved by the computer to select a floor in the skysciana. It's easy to make a pareless arrot. It's well worth reading the memos



Max heads far the lift.

just for storters, one that I haven't vet left understood. Gut it wicon. as you invariably will, and the lift ones out of control and dumps you at rendom somewhere up the top After a wish this simply becomes in

Once you make g onto a lloor, you're going to have to call into play

Left: Calls lift Floor: Gives occess to the floor computer. Some of the codes are provided for you in the instructions. Those for the president's floor and the lab are vital

purited in the instructions for firsther clear into the page as well Max Headsoom, the Irm, pave Quicks if ya a lot of scoon to create en original game. Sadly they chose

to ignore the possibilities taised by the plot I was remended of CRL's feature to make something of a similer ontt fam, Bladerniner Both the films there on their Intinistic atmosphere - nuther of the names

capitalisa on it. Evertually I lound the frackyness of the game a deterrant and began to lose interest canely. A wasted peopringly Fardy Hamilton

Grapnics		2	2	4			,		-2	18
Sound	7	2	3	á	3	6	-			16
Taughness	-1	2	3		8		7	â	7	10
Endurance	_	2	3	4			,			10
Yalus	\neg	2	-	٠		٠	,			10

INTERNATIONAL KARATE

COMMODORE 64/128 SYSTEM 3 Price: £6.50/cass

Way of the Exploding Fist and this The games are almost dentical Ber it International Except battor then its predecessor? Like Fist the game is played in front of vauges backdings. The moves on oil basically the some is mundhouse, thing kick, innor punch stc.

Scared is date in county half count for a normal move, fall point for a well-executed move. First player to two were the sound These Constrativa journey moves you no a belt and note a new, slightly men advanced occount. You get one life so you can't afford to loss a round

In between apparents there are sound types of boons sections. For azamoja von per to bandhutt a stack of rooftiles or avada flying abacts. the letter being the harder getion. A mce tench is when yon've won a connd your man flicks the sweet of his forehead. The speed this gome



Sight seeing in Athens is a lot more fun when you have a scrop autside the Porthenan.

doing the same thing This is the difference between the two genes, lateractional Karata is much factor than Multimore House's game It plays at page Atou speed Sound is also superior, memly thanks on the-cake scondituarks. It sounds lika something Byrachi Sakamete

to one of those Rob Hubberd gangmight and together. The means outs quicker as von process through the levals. Thren's some nice thucking sound effects in there as well to moke you winco.

The backdones are all excellent the

plans at you might well find yourself first one being a great drawing of the sohms. The enimetion is

excellent. international Karare is a polished on version of Fist and is, dair I say it better on all counts. All except one Drigmelity, If System 3 had got their act together and put the grmn out when criental fighting games were in their they'd have not away

with it. It is however little more than a copy, a copy though that sails for a steel, so if you don't have Fast and

fani temptad, go for rt. Fordy Hamilton



Fighting on the beach in Big - I oak you, whot's wrong with Pina Calado's and Graphia Sound Toughness Enduronee Value



Flata fly on the South Bonk on Big Ben tells you It is four a'clock.



Prepare your

THESESIMULATION



Decision Desert

THIS TIME YOU'RE IN COMMAND!

Second of the Command Series simulation beasson in the Deser puts you in command of some of the great bailties of Weidd War Decision in the Desert leatures continuous "accelerated realizing", lively graphics highly intolligent units strategic over wife maps and advance archicular intelligence commanding the computers locus

A very good strategy simulation





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excellent type of view of the plane, this flight simulation is really worth the money."

220p 64 Sept. 1955

The best strategy

I have played"

played"

Popular Computing Weel

ly excellent value for money, couple ver use of graphics, sound and screens

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Preview

hat ever happened to Nexus? Do you remember CU published a raview of it last summer and then the game myteriously facled to turn up m the shops.

This was due to Beyond being taken over by British Telecom Programmers Paul Voysey and Tayo Olows decided that they didn't want to work for Bushy and set up their own company Beyond hossus Rill Delyney and Cline Barley decided to go with them and a new

software company was born and they nelled & Name In case you are wondering why I am civery you all the lestory of the ferm staff it is for a good reason - the year



Note the interesting list of weapons on mene.

Preview

These people will help you in your task and it is therefore sesential that you make copiect with them as soon as

You have a rumber of abilities you can ran, jump, roll, punch and do e Kung-to style flying kock These are also weapons that you can select off a mem that is called up in the central information screen saing year specie are luted for postable use.

For our reality lot rin with the machine gue. It's fun but not exectly a smart tertic really, this wasn't des ioned to be a Commando clone The affect of shooting things up his some demented Rambo is merely to attract



Centre screen shows Yeur mosition on mon of the Nexus complex.





m between leaving Beyond and the launch of Nexus has been used to totally re-work the game - adding in lots of different and original feetures.

full review of the came because it is not yet completely finished but at as certainly sear anough to gree you a detailed praview and some early

Impressions You are an ace reporter sent to Columbia by your newspeper to assectogete the disappearance of your friend and to look into the dealmon of a shadowy organisation involved to the drags racket You suspect that your friend is being held by the organisation in the Nexus building where the

ethos takes place. You have two main objectives. One.

to locate your friend and release kim. the USA? Time and date of next stientics to yourself. All of the achoes and two to collect the 128 pieces of phopment. The answers take the part of information scattered throughout the a sentence, divided into four parts complex. Prece like information and remember there are 128 parts

together into a recommetable sentence altogether. and transmit it successfully back to much meyhen as possible in the Mexics segtences back to the Daily Clarion occupies — darupting the work of the from the Transmission Room.

security devices

If you went to get the best story for manapley screen. your newspaper there are up less than drugs produced? How do they get usto within to try and cearls the drugs risq. think it's going to be good.

You make sense of these buts of your edator. If you don't fancy that you sentences on one of this editing also one of those aroade adventures can just concentrate on camera as terminals and than transmit the that shows you with a tiny cursor, and

One of the most interesting things The Nexus complex as very heavily that you will first notice about Nexus is defended with quards and several the faces that oppear in the windows

These digitsed faces are not just enemant. 32 questions that you will have to find Iralis. They enable you to recognise exavers to. What is the name of the your triends in the Name complex - characterisation is stronger than in any chief scientist involved? Where sight the good guys who are working from

corrently evallable to you are presented in the information panel. More options are called ap var your joystick

Granture and accord are mantenave - especially the title mane, Nexus is mini map, exactly where you are elany given time - se sessibal feature in like type of pame

There's one hell of a lot in News. B ts a hybrid. It has arrests action, codes every time a character appears in the to be crecked, a large complex to find your way around, and intelligent

> The depth and quality of the game I've seen since Shodowfire Wa



Competition

NEXUS wer would to be a super-sleath reporter? An intermalisand correspondent yer wanted to be a super-cleath reporter? An international correspondent firing all over the world to the hottest trouble spots or a crime reporter firing all over the world to the hottest trouble spots or a crime tender. thring all over the world to the bottest boulde spois; or a crime reporter to manufacture the world to the bottest boulde spois; or a crime reporter to the manufacture of the spois of the nonithring the hig deals in the underworld; Well now you can thomks to you will need to file of first class scoop to your terourite sungature.

Out will need to file of first class scoop to your terourite sungature.

Cit.

TO YOUR INFOOM IN BOOGRAINS - CU.

TO A THE BOOK TO BE BOOK TO BE

You, when we have brited you out tee, years we have timed you call morety we are going to send you on

Me can't promise it will be quite as We can't promise it will be quite as actions but sections as the Fairlands or Librar but exciting as the Paintaines of Library and deal will be a lot more time a good dask alar, and it will concare your lavourie supplied to July Concesse John West based — payure volume sanguages to based one Mickey Mouse sanguages. The is not be took thought — and we This is no Mockey Mouse temporated and we substitute to the real thought and we

enters' to publish your taport in the

expect to publish your report in the following lance, feel to make rure you come part with the doors the Editor will be with you to lead a brook when

descripting date pools with hos the quadronies quit bough on your sangurant though you be on your management thomas you be chosen as our looky sympay. Nexus

COUNTY OF COLUMN STATE OF STATE CALLES Software are owner every a date cares company with time, best and decrease, a and him night for an are throught, a trendy Park! Street tryle bred case, a mendy freet object erys brest case walkness for playing back those NATIONAL OF PAYOR DACK ORDER for the reporter on the core who has to on the supprise on the more was the party of one and startured per, a File Fax processed have skill present to parameters and the processes when the parameters are a second secure you got the to be consecued. At a tipe roant place at the tipe don't

Now had at the word and above, there's a Now York at the world good source, there's fere word presence contained to 3. What Win an ace reporter's

_______ All entries must be received by 15th June 1988.

her one the test Max Hannings or over neconde the next leave transfer or even.

Mike Pathenden we recked that all that days, a deput to come in busin coupy. How To Win If you are going to crack the drops a fee are going to crace the decay complex, and observing to percore heart dong of

entering country. You are going to have to crack some some if you want to get crecking codes to crack some more it had being as well. Taura are two parties and entercom parties have described sequences and paramet become, each has a different of oil beauty cracked. Fail on what they

1 Mant hill ivaw meth? Bil man? Slith! Gwon Manales Flors olwith wh billion.

2 Joop yB yadot reeU erodommoC flet lyernH 7nec noY 7mht deer nov exC

Government agents, investigative reporters and employees of EMAP need not apply. Sentence 1:

Sentence 2:..

The Meesage: As e tie-breaker tall us what story you'd most like to go out and write for Commodore User and why you think it deserves covering:....

Complete the form and sand it to Naxus Competition. Commodore User, Priory Court, 30-32 Ferringdon Lene, London EC1R 3AU.

AMERICANA





No pinbali wizardry here

thing.

better stich to the regi

AMERICANA

Having decided to throw a price Nothing can replace the real tentrum et the inclusion of thee. This is defeately something Mostertranic's cheen you stick to the arcades for. gemos renge in the charts. U.S. Gold have realisad they are missing out on a fow bucks, so they've lounched their own rence colled Americane which selln at £2.99. We asked U.S. Gold'e Tim Cheney if he'd be upset if the semme

were excluded from the charts if they become hits. An unreportent Chengy shook his heed: "We made our etend and wo're sticking by it. These hind of gemes don't deserve chart recognition. So there you go, U.S. Gold heve seid their piece and ore

stending by it. SLAMBALI

In Slamball you get a pinball smoleton. Just that, notleng more exotic. Americana changes have planty of instructions and liumph with them which suggest you're getting a lot. Well you're not here. Using the systick you a fee a little omine ball un the table and then control the flippers as the ball scrolls down the

Year only other meens of control is by pressing the fire botton down you can similate the kick you can get off a table by barrying, Just like the real thing though, too much webness and the game trits



That's Slamball I can't really see the cost of such a same at any

Hot Foot's ghettoblaster batterles must be getting pretty low by now. Can you be bothered to Imitote him?

weak stoff. It failed to live on to the promise of its title at the time and now looks somewhat dated. Not had for three and I connects MOON

SHUTTLE

This is one of those shoot 'em nos in the style of cames like Moon Creste. The first ecreen presents you with the task of clearing on esteroid belt.



BREAKDANCE

This was probably Egyx's worst ever come Released on the breakdencing leg hop bendwagen last year it contamed none of the classy graphics or stylish finish of any of that mean hits

The gama took the form of a serv prizzle dividing into three parts. In the first you had to mirror the move ments of the local see "Hot Feet", In the second you buttle it out on the waterfront with a group of descris who have just invaded your territory. Again it's a case of amulating their moves eamn the joystick. The mavitable feilura results in you taking an early bath

The thed challenge was a Master mind-styla puzzla myolynig selecting a segnatics of moves, each shown m a building window. The only part of Breekdance that bore any resembisnce to a game which deserved such a title was the final challenge which was a sort of freestyle event which slowed you to get all the averable moves together m a free style contrie. I bet they used the same code for the sos dancing in Winter Games

In short Breakdance was pratty

Once this has been completed you era confronted with waves of nesting all patting prograssively difficult, all deadly in their own way Bomb launchers are probably the

easest of your opponents. Staying in one position and tirring your shots wall will be amough to see them off. The Expandes get larger and larger as they fire. They're a problem

because thera's an many of them to Mon-o-wars present the most difficult challange dodging and firing at rendom sa they circle round the

Other nesties you'll meet on your travels include the blob men and Combrade the proce of derivesse who appears with the binh men. Asteroid showers which pet faster elso appear at intervels.

Moon shuttle is a pretty everage same which holds no new elements or special challenges, Gree et a swarva aven at this price.

OLLIES FOLLIES

In Otres Fallies you are the daredevil Olio who has to leap through



Moon Shattle - not one of NASA's fovourite gomes.

twenty four screens of 3D planform

To escape from sech screen von have to hop your way to the locked door making sure yon first find the

key and take it with yon. The plafforms are populated by the usual bunch of nasties but there is a novel way of dasling with them Which remoded me of the ocway min m Fat Man. As well as the traditranel method of hopping over the nastes you can also swallow an enancear which will make you mystable for five seconds. The parreisass bave one emerine side

effect, though - they make your hait toto vellow. When you got coto come of the leter screens the action really hots op with moving plafforms requiring

the most procusa hone

Did platform gomes go out with plotform shoes? Offic must negotiote 24 screens to try and

get into a better come.

One of the nice things about this same are the codes that enable woto start where you left off each time yon load a new game (Sahh Bon't say I told you, but the words Frank

and Funds might come in useful.) There are a county of nastres that werd so devipus they deserve a mention - namely the electric fan that blows you off your famt and the spark-spitting oven that is outs an

efectulying expension. Graphics are chearful with large sprites and bright colones. Sound is only average though with a naussating time and below evarege

At £2.99 this is a most for dehard platform nuts. Ordinary gamere may get a cheep thall or two out of it as well

NEW YORK CITY

Most of you have at one time or are they had tourist troubles. If you haven't and would like to, then read on because that's the subject of thes

You play a tounst who has to wort



The Incuring on the Prince State building, United Nations bridge Brant's toreb, (Lou? - Ed. World Trede Costra, Citicorp Dentra, Driv. Hall The Zon Post Office Antomot Mort. Bank, Snbway.

You start the name sittmo m year car in a car park. The location you must next want is displayed at the battom of the screen. This will not be easy because although you have a mag. New York is famly larne. The 64 shows you a bird's ave view of your cer chapping slowly

along the streets of NYC, while crary cabbres and fire trucks attempt to slam mtn unu Should one of these but you - and

von'll need to be a cretty smart dower to award that eventuality you will be sent straight to the city hospital while your car is given a chack and nas redd



Ces Sinotro: "F want to be a part of it New York, New York "

Just as in real life parage bills will set you lock a bob or two and thints are no different in New York ~ which makes for quite a draw on the meesly eight hundred dollars which yon are given at the start of the

Money is unite a problem in this game as just about evarything you do will cost you hard cash. My man enteren of the name is what hoppens to you once actually stande a tonest attraction. A tedrons platform same that fails

density to entertain The sem been is to get to the top of the screan and west for a platform to appear between the middle ladders so you can rnn across rt and get the steering wheel-like object, net back down to the botto again, all the time evoiding the two little men that will send you crashing

slightest touch. Graphes and sound leave inst o bit to be descued but all in all this is a most addictive and antartaining game and a scoop at £2.99

SENTINEL

Definitely one of the batter releas on the Americana label. Sastinal was given favourable reviews when it annuared a year or so back at fall

Sentinel took ite lead from Atan's Star Raiders which was itself the precessor of Eite, and pretty good anterteinment a few years book. You control a statishio from the commend deck on its voyage through the galexy. By using the ship'e



instrumentation you can battle with enemy shows or different strengths. dock and refuel, and stop aliens from captoning saith.

The yew is a straight ahead 30 one of space from the deck of your own ship. Two lerge pure lut out. and shift around realistically You rhoose a zone to warn to by salecting a colordinata from a and the sing's computer throws up on the scenary Different coloured shots displayed have different capabilities, For the heavest you'll need you proton bolts.

To secceed you'll have to clear eway all enemy shots and besa stars. Sentinel is a real



problem is targeting, because the onns are contolled in one of those down for no. no for down modes. which is a bit discrentation You have a limited amount of shields as well and these can toke a hattering in asteroid showers as well. Fordy Hamilton



which is no easy task. The man



10 COMPUTER HITS 2

COMMODORE 64/128 BEAU JOLLY

Price: £8.99/cess



Looks like certain solitivima bouses ere running out of new rities, sud have hed to resort to compilistations and arcade conversance. Select John have now released them third compilation in five mouths. On it you

will Ind -Separ Pipelina 2

Yen are n plumber who has to stop variens nastres from damaging the network of pipes. A full little game with good carbou style graphes. Mentand Manty

Mintant Manty
Get the treasers oud rescue the
demost of dictress is the challenge
you accept where you take on the
role of Mustent Monty, but don't be
feeled the game is Y A W N berne?

Henry's Hause Pince Henry Ino raintent suts out to discover the secret of the palacer's eight rooms and has to collect venous objects. The raself: an everage platform game

Gribbly's Day Gut
Qu the plmast Blobper, home of
Gribbly Scalbby, all the lettle gribblets
have storn a brenk, "Poor old Gribbly is
lumbered with the pool of flowing
them, which is unt as easy as it
sounds. What who can I say but
brents and thereful graphers, great

gama. By far the best of the len. Sepakar Another summinum in the Steva Days

model. You can choose how much power or spir to put on your match winning break favell my match winning — 147 — break) but all the same a bed simulation, with normalistic movement.

Mana Liama

Harry Jalf Menter's old favourits, but isn't it just too late?

Raphpel
A defender style shoot-em-op, defend
your trach from invading about. Nice
and last

Aqua Racer A speedboat simulation, race egainst the clock but be seen to event other competitors for thing are teady and willing to knoch you off! A feet and addictive pama.

Graphics	7	3	2	٠	•	į
Sound	1	2	Ð	4	3	
foughness	$\overline{}$	ż		٠	7	,
Endurance	7	7	3	٠	5	1
Kolum	-	_	÷	~	_	

Franzyl

FM in the screen with boxes but watch out for certesi parties may want to stop you. Primitive graphics and sound but an increasing challenge of the same.

Circus

A prepinc adventure fram

Adventureoft A rims enably good
adventure game. But difficult, but
theirs not uncessarily a bad there.

I rapped under SDVs of these permis as "morth hampy", commission to no campletee Thi peet is the bundle game packs are now so good that it is not remaph to get hamp only in games stepsishe. People want you good games — all yould games too, ust hall good and tall salf. My personal recommendation for the best Commiss i. 8. If the North Addition I commission is not the second commission of the best Commiss i. 8. If the North Addition I commission is not the second commission of the North Addition I come i. 8. If the North Addition I come is 18. If the North Addition I come

/
Overall

ARCADE CLASSICS

COMMODORE 64/128 DATASOFT

Price:



Looks like now is a good time to build up your games cellinchen, with all thrus compilations about. Then one is from Batasoft and centains some "Solden Oldins" from the accades.

hig Dag An 48 Atan game from '94. You must broad through the sarch conference water, and thing any mentates you come access. There are bree special moneys, they are specially supported by the special property of the specia

the treasures get richer, but the monsters get laster. Once in firm favorerse, but now locking a bit dated.

Although two years old this game still features strangly in my games collection. You must guide Mr Do through the cherry listed autring all in your path.

Naturally you'll have to watch out for the restart, if you lamp ett any all then derive is cartant. You need to be quarter or the fire-but to us to them with your power-bell. Shoot all the letter shaped moutare to with yoursall are start let for. This are many shoets to complete an that fest and ferror exists.

Pole Position Although over two years old PP is atil king of the socing games up and down the country Sadly though the same causet be said about this 64

version.

The game lacks just about averything it has neither the speed nor the pleyability of the original.

Chimicy graphics and bad sound dou't help much either.

The and result is below everage racing game.

Pac-man Needs no mirodection Undoubtedly the most recessful steads game

This is a faithful reproduction of the original. Au sizellant clone, with all the speed of the original. Areade classics are all barrially good opines of their big profiles but is can't seconcily an item companies with the most recent

good copies of their big brothers but can't Serious is can't seriously san this completing with the more recent ones. A good one far ageing exceding but, as is the case with Comenter this 10, there are few other compilations around that I would notes you to thinh about beyong lists.

Fordy Hamilton

7 Overall



R.M.S. TITANIC

COMMODORE 64/128 ELECTRIC DREAMS Price: £9.95/Cass

£14.95/disk

C'man, idmu it, yan can't help being functioned by the decress of the enlanded lines - the Tittain It was only a matter of time till the computer same appeared and now it has - and I would like to say neht at the becomme of this reverse that Flectic Breares have

mede an axcellent job of a fascinating place of maritima history. You sim in the game is to raise the Tituric from his watery grave and class the sewels, cash, and up'd reunted to be stashed many in

the shu's safe. At centure of the values werest you use the TSI (advanced reliens device sousped with rebot arm and cameras! to saulors the Titanic.

Time is crucial to you as you need to show results quickly to generate good gress and keep your hackers. hecoy. The T.S.L. can only he sent down

once a day -- so you have to make sura each visit is productive. The device is in two-way commoncation with the ship, so that you can decide

Main play Icons and calendar shawing fateful day ringed.

what to do with an object when it her been electified

The T.S.I. also has its limitations and can only carry four abacts at a hme - so you have to think carafally before asing the uppet arm to or strether on

The screen desplay on the main salvana vessel shows a calandar with the cursuit day ringed, a dive scon for using the T.S.I., a finance upon for raiking to you backers from here to keen them sweet! a crass confor talking to venous reporters

around the story Ithis is his news and you nand to keep the press interest going), a mean icon which enables was to move time forward. nuckly to the next day and to ove

your prew a good zight's sleep, and finally there is a save game icon. Each of these leads to more screens denicting that particular

aspect of the name. In order to not the Titaue back to the surface you will have to milete eight bees placed at strategic points acound the shim When they have



WAR PLAY

COMMODORE 64/128 ANCO

Price: £7.95/cass

There comes a time - very ressly when you less up a name and you can't think of anything to say about it You look at it, on through the motions whilst your mind goes black Nothing, shoolufely nothing, i'm at a complete loss as to white to say shout Wiss Play, but I'll try,

Was Play is an arcade shoot 'are ng. The scenero, the cover informs you is to mysde on island, kneck

ant tire command posts and thru go on to was not the snamy

corwender's handquarters. You are over three methods of attack, in each case you control a single object with the psystick. Select from the mann other a tank, homber or fighter. Each has its own failing so it

The tank or the slowest hat the eacust to control -- their six shades

of Bouch Hand hem. It's speed though makes it an easy target for the propertion's belicosters and more udicolously some kind of rabat like animal lob data powers of description aluda ma heral which

Loaks a bit like a

Cammonda clene but plays nathing

comes along and obliterates you d you gat stuck The lighter is forward fining and

mais manoeuvisable. However to destray anything of significance you have to fly down to ground level shedes of Zsaxon. Since the playing sees is so small though, the chances are that you'll fly onto something whilst lining up a farger. Ingger action as with all assault craft is

slow and barrno The bomber is slow and neturally drops its paylend vertically. The numbers I encountered here was the impossibility of hitting anything. Often von never see a list becames the scrolling takes your terest out of



OK title screen shame about the

Gripping title about to hit the Iceberg.

have to find them and much before the backers get cold feat. This is a great dame, it's tomph, interesting, and addictive. Bit of smulation, and a bit of arcade adventure - style nuzzle. Detenhely

been filled with air the Titamo will final to the curiors i haven't managed this yet. Its the previous T S I. left the bags. You

not for shoot 'em up nots but if you iske your games challenging and tricky because you con't know where stimulating don't miss it. Eugano Lacay

Graphics Sound Taughness Enduncana Value



eight before the hook dions on it Your loch of speed also meens you are likely to be remmed by this little

buzzing object (descriptive inspiration again sludes me here). In all the time I played this game I naver het a blockhonse ce felt as il I

was getting anywhate Shoot 'em nos as I'va said belova should give a sense of satisfaction at the sight of

the enemy being blown swoy. Row Plug is devoid of any reward for

All we can be thenkful for is that Anca had the decasey not to gove it a cross titla lika Raid over Libya. I'm at a loss to add snything also to anlighten you. No more games like this on the 64 pleasa.

Miles Patts

Graphics Sound Toughness Endurence Value

TOUCHDOWN FOOTBALL



COMMODORE 64/128 ARIOLASOFT

Price: £9.95/cass £14.95/disk

Hnd, hud, hud - and the American

Football games coatinue to appear in

the wahs of the sport's new found appulanty. This version comes from

American house Imagic but fails to measure on to Ocean's home-based

The prehiem with Touchdown is

that it opes for a more praphical serverentation & le Ten Yard Firet

That makes the figures very small and antike. When they rush together

the screen. A biot on Anclasoft's

Dotions allow you to play another

to fiftaan minutes and #8 toleveat

Each side make its formation for

offense and detence. Depending on

opponent, the computer or even

copybook you might say The game though isn't all bid

the result is a bine black splangs on

Look classly at that scoreboard and you will see that I em 7.9 up in the first quarter Boost, boost

your choice the teams line up in the appropriate positions. This is where the name nets complicated bacause it helps to hnow your possible positions and what they're for, I don't know tham all so I tanded to with a bit blindly. The instructions do give some help.

The game starts in namest when you areo buch the ball. The east of the players begin to move of their own accord You comrol the quarterback. Ideewssa your appopped. Passing is not at all easy and the direction of the throw depends noon

you team's attacking formation Tackling is easier becomes most of the work is done for you. When pleying dafance you're bast off haubing the men under control hannon back warring to make up inteccept Touchdown can't as once on the ave

es Super Bowl, but it is a bit less execting and more immediately pigyable The arcade approach should wetch the computer play itself. The appeal to these lazy types not there computer is something of an expert - I count myself among them so vou're batter off pleying o mate. who eren't been on randing masses of pages of instructions and want to Quarter lengths are optional from five get streight ime the gama. This informition is displayed on the top of could work agonst it in the long term though. You mightn't went to come bech to it repeatedly.

Miha Pattenden

Graphies 1 2 3 2 2 Samed Toughness

the acreen unfusally

4 8 6 7 8 8 10



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MANIC MINER



COMMODORE 16 and Plus/4 SOFTWARE **PROJECTS** Price: £5.95/cass

Whist weiting for the came to load I passed the time refreshing my memory of this game reading the stiley card It all came flooding back. Miner Willy while asospective rlown Burbiton Way, stumbles noon an encient, long-longotten mmeshaft. Befurther exploration be finds evidence. of a lost civilisation far superior to our own, which used entometors to det deen into the parth's core

Actually all the information you need to know is shown whilst the came is being loaded enyway. I don't think there can be snyone

who eners computer games, who seesn't know how to glay Meroic Mose but I will explain the have idea of the game sust in case. Yon control Mines Willy and the

idea is to collect the flashing objects from inaccessible places, expiring the inevitable nasties like noisonurs parses, spiders, sime and many: mining lobats. Conveyor belts and mond meces of sack also budge you attempts to corquer the com-Fell heavily end you lose a life, and don't forget there is only so much air in the cavour so time is of the assence. The only pro is a bonus for fast completion of a sereen.

The game starts off in the famous "Centrel" cavern, where you have to collect of the keys, whilst avoiding the minor robot and stusties. Since

Haw is Miner Willy gaing to get thase keys, avaid the honogrous, and not anta the next screen?

Willy has collected all the stamp, be has to on to the operal to be transported to the next acreen. My favorate screen is the Abandoned Urenrum Workings, Miner Willy has to ison from ledge to lating reliection the keys as he goes Just get one last out of place and h's a long way down. I can get as fer as Expens's Lov. and that is my lot. And ph. how

I've tried and bird to get past it, The quality of quantics on these screens era excellent, well done Soltware Projects, this conversion works really well. The only criticism I have is the sound, or lack of it. When the famous Menic Morer have has gone, the only sound you hear is when you do or collect objects (and even them as only a click), perhaps a their world be annercate Also the name starts playing

Dodge the mutant processing plant



LIUES 2

PHARAOH'S TOMB

C16 and Plus/4 **MAGNIFICENT 7**

Price: £4.95/cass

Well, well, what have we hera. Could n be enother company cashing in on the success of englem Egyption games like Entended and

Scarabanaics? My obligation has always been that there's nothing wrong with ripping off other people's ideas es long as you make a good job of it. Not re put toe line a point on it, Pharegh's Tomb is the buggest pile of garbage I've seen since the homes went on sinks

Hore's the story. You are an untropid axplorer taking on oftennoon stroll through the Valley Of The Kings when you stamble ecross tieraglyphics telling you of the evil reign of an ancient wizard Tha secret of the wizted's power is the trangle of the Gods, the key to which he has broken into four perts and scattered throughout the

What arrows me about this is that it was obviously winten on the back of an envelope one lunchtene in the pub. Where's the rasearch? The consistency? Wizards in second Egypt, what are they telling about?

And everyone knows there are no pyrameds in The Valley Of The Kings. Unreportant you may think, but this

- we are talking

is what's supposed to be selfing you the game and setting the mood. And so to the game 'A graphical adventore with many being screens' ri says For which reed a prephical advantors with not that many Pharagh's Tomb





Our Editor's fovourite screen -Eugene's Lair, Fame

setomatically, so if you want to play yon have to loose all of your lives to you can start your game it would have made trie a fot armoler if you could have just pressed Fire to stert. Having sold that, Manue Money is a fast and address game, you just have to have one more go, until yen are og half the night trying to contrast it MM is not the most enginal game in this world any more,

but I connot impays my C18

Si

To

Er

collection being complete without it.



Very precise jumps here if you are geing to get out of the ebandoned Uranium workings

Let's hope that Software Projects convert Jet Set Willy and Jet Set Willy 2 m the not too distant fainm Jemes Pinkering as well

raphics	7	1	-2	4	-	•	7		-	13	
ound	_	3	э	٠			7			18	
pughness	1	2		4	Ŧ		7	ī		18	-
ndurance	,	1	T			٠	7			18	
alue	-	2				-	7		7	10	Overell

acreans otherwise we would have told you exactly how meny, I would say 20 to whack.

It's not so much the number as what's in them. This rearres all look pratty much the same ascept they have doors in different places. The heroglyphics on the wells schooly don't took too bad. The programmers have decided to throw the heat staff

at you first. When you move into the second chember a mmmmy with trailing bandages lumbers towards you. This as where the first problem across. The characters have been designed on a grid much larger than the scace they accook and when they come enywhere near your man, hits of him disappeer as the Iwo 'suntes'

overlap it gives the game a very emateurish opposesance. By the way, I said characters, but the other one is a spider. Apart from you they are the only things that move, not including a rectangular shaped thing that looks like a metake. There are lour parts of the key to

collect and I managed to get add of three of them in about tan menutas. absor tourd an aggie and a sough obviously intended for some purpose. I would advise you to steer well ciner of Phereoh's Tomb. It's a pretty shoddy prece of software and I slor't think much time or thought has gone into producing it. The only professional leaking thing about it is the packaging.

Ken McMehen

Graphics	-	Ţ	7	7	,		,	7		10	
Sound	7	1					,	i		be	-
Toughness	-										_
Endurance	-		2			٠	7		,	18	_
Volue	~			٠			7			10	Overall

KICK START

C16 and Plus/4 MASTER. TRONIC Price:

The em of the gems, as

obstacles

Mastertronic like to say, is to ride

The first thmg that strikes you

about the game is the great intro

music. The sound on C16 germs

two stroke rays into action. Yes

right as the ground scrolls

Hit the fire botton and your trusty

travel across the acreen towards the

In no tenn at all you're confromed

with some pretty heavy leakens

this is no escention

your diet bake thrench system

£1 99/cass

springboard which leunches you skyward at mat the oaht moment Landmo is of course on eteographic different problem

Each section must be compinted within a niven time little metrated by a clock at the top of the screen When a section is completed year bice slows to a hair and you get a beaus for time remaining on the ciock and any bikes that you have left. A melecement bace or elen

swerded no to a maximum of five There are sixtenn sections

pitnouther as each one is completed a fittle flag appears on the screen. The obstacles and hazards become a screes lifed with some outty touch lot more interested as you proceed Section two has balleons which can he collected for home points, but probably the most impressive was section sor, where hobtome bolts ern hurled earthwerd from thurse improves with every new release and clauds.

If I had to make a concurr at would be ther there is not really enough variety in the different sections. The same things seem to crop no impastedly in a slightly different errangemen nech time. Hence you have rows of three buses. rows of four buses, individual leas-

obstacles Actually to begit with they're not too had, they seet not yon into the swing of things. Holes oppoor in the ground, logs are carelessly left lying in your path, rows of double decker buses ennie buses.

Gother speed before leaping the



from nowhere. With most of these logs in a pile, scettered logs etc. n's simply a question of getting the While this tends to make the came speed right and fitting the fire look a bit monotogons, it termens button of the right moment to jamp nonetheless, pure e challenge end over them. You are given a little help fun to play. with the bases in the form of a

Ken MnMehes

braphics		1	*	2	4		•	7		10	
Sound		r						7	ń	10	
le ughness	=										
Indurance											
/olue	-	•	İ	0		0	0	,	7	12	Ov

INDOOR SOCCER

C16 and Plus/4 **MAGNIFICENT 7**

Price: £4.99/cass There are two teams and that's about the only resemblance the game bears to the real thms. You can either clay enainst a limind - if yon can interest one - otherwise the C18 is your consount At kick of time you get a grandstand view of the pitch at the halfway line. As the play mayes to either and, usually your own, the screen cans to take in the action The raf blows hit whatle there end actnelly a relates, you have to pretend; and yon're owey - or rather the encourage is it took me a good ten minntes to work out

ted been no noon was fed what was ofter I'd realised the metrochane

had told me to put the joystick in the wrene port.

During the course of play the plever nearest the ball is the active one or at least should be He in the one who will respond to your sousteck or keyboard controls. In practice the octave players seem to channe outs arbitrarily and you always not implected with the one

who's in the least useful position. Takene gossassion is small you just welk up to the bell and it's yours orless of course the opposition have it, in which case a bit of cynical fouling is on the cards

You can keek the ball upon the live button, strength being detarmined by the brooth of time you hold it down be recovered to produce sewthern like eccurate passing

If you actually manage to scare the crowd ones wild nation fanny laces and clapping. It's a pity thera's. Magnificant 7 won't score with this no sound have as it might have gone some way to improving things

So what's wrong with it? Well for a start there is little essemblance between this and football Fouls go nnpurushed - desorte what it says in the black about a paralty keck (from the centre spot!). Virtuelly everytime f menaged to gain possession f had the less choosed from under me dirty itn't the word. This wooldn't heve been so bad had the promised fight developed - for which you are owerfad a panalty - but they are woufdo't be poaded.

This was very definitely not a game of two helves. When we were supposed to change ands the sense resat and a new name was started. just what I was possed for a 9-0 compliant

On top of all this the prophics are metry nane. The olevers look like poorly drawn metchstick men, are very fickery and at tames buts of them disappear complately.

Ken McMahaa



-	3	2		2		7	2	2	10	
f	ì	2	4	3	3	7			18	
77	3		4	1	4	7	*	2	12	Overoil
	1-1-	7 2 7 3 1 2	T 2 3	1 2 3 6	1 2 2 4 3	1 2 2 4 3 3	1 2 2 4 3 8 7	1 2 2 4 3 2 7 1	1 2 2 4 3 3 7 1 1	1 3 2 4 3 0 7 3 2 10 1 2 3 0 2 3 7 0 2 10 1 2 3 0 4 3 5 7 8 8 13 1 2 0 0 5 2 7 0 0 10

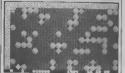
THE RETURN OF ROCKMAN

Gre Sou Tou End

C16 and Plus/4 MASTERTRONIC Price: £1.99/cass

You must york Rockman, or Bons. depending on whether you rend the mlsy or the screan through ten caverns in the hnot for asserves are playing a Boulderdash rip-off The caverns ere made op of handreds of basiders perched

precamposity on top of one another and the dismonds are to be found esting in between



After when seems fike an ope, but is probably about five seconds, the bink sonara transforms itself ento Rockman proper, And whet a sorry

sold he is There is a very slight delay batween moving the soystick and Rockman actually oping anywhere This can be crucial when the slightest wrong move can result m en evalanche of boulders falling on your head. Thurn's pathene more frustreting than losing lives because of someone's bad programming rather

then your own lack of skill While we'm on the subject of poor programming there's another thing Most mere games that feature strollerame - t.a. the scenery scroling baland as you make around

- keep your man in the middle of the screen so that you can see what's come an all around Not so Rockman. He moves up to withm about half an mch or se of the screen edge, then thmos start to sered. This is completely and utterly boneless. Unless you propress one radiously slow step at a time you don't know whet's about to come at

you from the edges of the screen Baste honestly I Sidn't discover any ol this because the game provad so boring and frustrating on level one I conidn't bring myself to up any further This game has so many other drawbacks that I find it hard to see

it bases well liked by envote Kee McMahen

Graphics Sound Toughness Endurance Value

COMMODORE 32 CHART

1	Uridium	Hewson
NEW	Superbowl	Ocean
NEW	V	Ocean
W	Hardball	U.S. Gold
NEW	Bomb Jack	Elite
NEW	Zapp Sizzlers	Gremlin Graphics
NEW	Ping Pong	Imagine
8	Kane	Mastertronic
NEW	Phantom of the Asteroids	Mastertronic
(10)	Yie Ar Kung Fu	Imagine
(1)	Kung Fu Master	U.S. Gold
HEM	Comp. Hits 10 Vol. 2	Beau Jolly
(13)	Zoids	Martech
(14)	F.A. Cup Football	Virgia
(15)	Elektra Glide	English
16	Last V8	Mastertronic
(1)	Master of Magic	Mastertronic
(18)	Mercenary	Novagen
(19)	Eidolon	Activision
(20)	Kik Start	Mastertronic
-	ALEBAT -	— AПЕТ —

CHART CHAT

Few surprises this moath. Uridium holds its own despite a strong challenge from Ocean's latest releases Super-bowl and V. These may not sustain their challenge though with the imminent release of Spindiary and Starquake. Elektra Gilds slumps in its second month — not unsurprisingly lor a game whose strongest selling point was its cut movie triffs.

Over on the General chart forcen Beret's appearance at three demonstrates the strength of challenge it will make when it's finally released on the 64. Bombjack's placing at three clearly owes more to the Spectrum version which was undoubtedly better than the 64 olfering.

· · · GALLUP

GENERALI

NEW	Way of the Tiger	Gremlin Graphics
NEW	Bomb Jack	Elite
NEW	Grann Berat	Imagine
NEW	Superbowl	Ocean
(5)	Commando	Elite
NEW	V	Ocean
(7)	Formula One Simulator	Mastertronic
NEW	Comp. Hits 10 Vot. 2	Beas Jolly
(1)	Last VB	Mastertronic
NEW	Ping Pung	Imagine

<u>CII6</u>

1	Mr Puniverse	Mastertronic
EW	Bandits ut Zero	Mastertronic
3	Big Mac	Mastertronic
3)	Formulu One Simulator	Mustertronic
5)	Commando	Elite
61	BMX Recers	
7}	Winter Dlympics	Tynesoft
EW	Rockmun	Mastertronic
9	Tutti Frutti	Mastertronic
109	Squirm	Mastertranic

The Valley is pleased to welcome a new regular adventurer in the shape of Keith Campbell, the best known adventure writer ground. Over to you Keith . . .



Victor Kapp died - you must find out who squeezed the trigger

Perry Mason: The Case of the Mandarin Murder pending trial, and kept under heavy

Telarium GrA Price £19.95 Disk only:

There was a broken status scattered all over the spartment floor, and a oun next to whate they found Victor Kapp's body. He'd been shot in the back, and the oun belonged to his wife Laura, who was wandering mound in a state of delinum

Laure was carried every to prison,

sedation Trouble was, only the day before, she had been to see you. Perry Mason, world leasure criminal lawyer, to ask you take on a case for post day, to discuss matters. Now suddenly, you find yourself about to defead her against a murder obarge

Remember Perry Mason? He's the fectional detective created by Erle Stanley Gardner, and was played by some years ago. The game presents one of his cases, m a very realistic

There are two steams to the ceme. which is crute different from most adventures. Before the trial beaus. the watchful evas of the police, to yes the scene of the owner Here, won gel the chance to ex-

smine everything down to the trulet (which turns out to be a standard Grade A All-American modell their patience and ont thrown out normalworky, before von've had a chance to get the maximum benefit

Next you can move between your office and the prison. The office is where your legal assuran. Della Street, works, and where your private ove. Paul Drain will leave



Paul Drake, your eleuthing assistant

reports on any meshpation yephave asked him to carry out (and perhaps a be more besided. A wart to the prison is rether depression Laura does not make much seaso. and most of her mumblings are

Hartag discovered all you can, Thu is the major part of the game. You are 'steered' through this rather cleves simulation, and your comthe witnesses These one first onestoped by the DA's man, and betthe answer, onve instructions to Della or Paul (who can investigate and report back while the trial is an progress), or raise an objection.

have good grounds for obsecting B judge, the pary may think you ere be

There are plenty of suspects, and witnesses have thomas to lade, and I's up to you to try to hit their weak pocal, with questions like Miller. describe your relationship with Victhe command structure in a table of columns, In precios, thus into as



The lieutenant gate a grilling in

complex as 2 sounds. Nor are the

After such witness leaves the stand, you are presented with the bury a altitude towards your owns exammahon. If you get really stock for

by Keith Campbell

e creedion, there is always Dalla on What really counts, of course, is the tury's final vardict, for your object tive as to get your cheet off the hook.

So far, I have only seen poor Laus taken ever in handouffs at the end lar deeper then I at first suspected



Yau'd better have yaur facts right or the prosecution will have Laura led away to the slommer.

Playability

Asylum All American Adventures Grå Price: Disk £14.95 Cass £9.95

Wey, way back in 1981, when the called Asvirm was released by Med Systems, a US software company, Ir ran on the popular bome computs

of the day, the TRS-80 and Apple After all those years, it's now available on the 64

Asylum featured crude but effective straight line graphics, abourage perspective views through a mane. The objects were all contented in boxes, presumably to accoundate the limitations of the graphics available. But there were pictures of queeds, stathound of strategic porcess, stathound of strategic porcess, and doors within the many

were shown, either open or closed. Movement loward was effected by pressure the up errow; changing the direction faced was carried out by pressing the left, right, or down arrows. Thus, as the player moved through the mare, he could see the far wall moving lowered him, and the side entit appearing all at machine-code used at these over deficience.



Leaks like a
Haliday Inn? Na
this le where you
start your escape.

The clever part, which made the genus an adventure rather than a more mare quine, was that present any alpha-character key untarted a test input mode, and the command unfared was everprised with a response in the normal adventure lashom.

lashon.
The objective was to escape from the Asylum, and even though I reviewed the game back in July 1982, I have still not learn of anyone



Just ane of this gome's 'lively' Inmotes.

who actually get out! I did once bump into a couple of hinatics who had been stock behind the exit door for about a weef.

Not only was the Asylum was, there were some extremely difficult publicus to deal with, involving inmales, quards, and suspecin. Many a time was I forcibly storied is for a pre-frontal lobotomy, after which I

leit very calm!

Not long ago a game called
Asylum for the Commodore S4 and
Asian was recommended to me by an
American student. I wondered til st



Nice consolation screen for those who full to brook out.

Nice consolution screen for those

It loaded from this under a in-resordour picture of an unfortunate who defauntly board disturbed to any the least I acon found myself in a room with a bed and a restrict early and an unlocked door. Not the same came after all, for the old Anylum had a roughe of unforking problems

as wapaper. However, once outside the room, However, once outside the room, the parapactive mane appeared, but that time in hir res question, alled in different shades of grey. Movement smoothly acrolled foreset rether than yenjump foreset, and when a character was encountered the duly started spinning, producing a colour.

Soon I came across an electrician, bearing e agin seying LOOK UP. All may settincts warred me not to, warn ed me that I would meet a musical end! Of course, I had to check it out, and it happened — the psano lell on my head. What else would you

Is fact, Anylors for the 64, as a completely new adventure written to the same format as the onemal. A



Asylem freitcake.

less ideas here been carried over, but the maze leyout and most of the problems are different.

The new Asylum is no easier, nor any less suppuble, than the original As is as a loca tell, the map is even larger, and far more complex. The new implementation has taken full advantage of the improvements in hardware capability, since those early computers.

If you like 'em hard, with no help



advice from this

other than a full vocabulary listing, and are prepared to be paintishing about plotting the mare, then this is the game for you!

UK PREVIEW

Infinite Inferno GrA Price: Disk n/a

Written by S. Hugamark and P. Hesmugnohn, this adventure has soil been released in the UK — yet ill rans from duk on the 64, and opens with some really effective title muser, to always activities on the contraction of their many friends and real stein.

Yau stort here, Inside a box with a hangover.



NEWS

Three Days In Carpethia, the long awaited sequal to the vary popular wortime spy solventure Valkyre 17, is on its way. Whitten on The Biro, The Ram Jem Corporation's new in-house adventure creator, it will have many anhanced features over its forerunner.

have their own personalities, and it will be possible to hold fairly intelligent conversations. This graphical adventure for the 64/128 is expected later this year.

Meanwhile Ram Jam's ball-pointed enswer to The Quill, will hereid a whole new series of adventure release. Including a acience fiction sage. The Sock and Tooth Affair Chicago. a Mafie scenerio featuring Rate Maldeno and the Morona Rate Maldeno on the Morona.

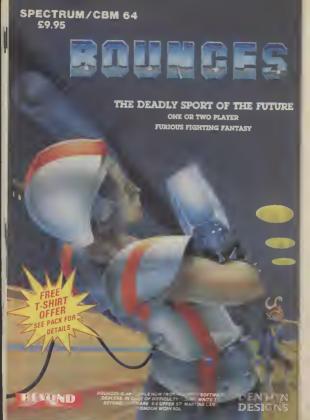
Brothers; and Shadow Warrior, on authentic Ninje edvanture.

In addition, Ram Jem will be producing a number of adventure titles for release by other publishers, including The Amulet, planned for Mosaic, and announced in last month's Vallay.

The Price Of Megic, Level 9's sequel to Red Moon, their ewerd winning edventure of 1985, was released during April.

Featuring more magic then its forerunner, this letest epic from the Austin etable looks set to be yet

Take a trip into next month's Valley for a review of The Price of Magik, and the lowdown on Level 9's plane for the next 12 months.



INTO VALLEY

Ultima IV

All American Adventures GrA

Price: £19,95

Following on trees Enodes Ultima III, thes is a game of wast dissensions, contained on two double-sided disks Walt D&D style, if could almost be described as 'arrade develore' were it not for the fact that if is not juyablek operated, and no keyboard reaction skills age segment.

Honor, (you'll have to get used to the American man-opelling) companton, pride, and homelay, all ples a part in assessment the player of character and assurption to a thinkelse, in the opening sequences of the game Questions of conficiency materies are allested by a grype, who notches up the points on an absume, as we exploy.

Play then proceeds to the Empire of Britanna. The player moves around a map of the Empire by using four chrection keys On extering a town or vollage, the map becomes a plan, drawn to a much bogger scale. The quest is for the formula for a better the for the subjects of Lord British, the major of the subjects of the su

The display is arranged with the map in a square boa, taking up the

full height of the screen. To the right us a text area, showing who is in company with the adventurer, hit points, and state of health. Selow this is the screding conversation — the lay-coded commands are displayed in

To entertain you on your ardsons journey, there is some quite catchy music of the period, which can be bonded off and no at soil

To start with, there seems hitle to quide you as to where you should go and what you should do to achieve your objective. But the locals are quite a inendly bunch and will quale often volunteer a useful tip or two of

you talk to them
You'll have to talk to many of them
to get very far, as it's necessary to
gather together a hand of comradus



Opening screens set the scene for the Empire



Lord British is very benevolent — he gives

coed. So you seed to know which we when, and what their cognitions was not conversation to about the only as bring may be that a typic, and the words allowed are rather immediate. However, in addition to fire test, there are about theminy other commands, such as CPEN, SEARCH, ATTACK, and so on, that are small youngle keywines. To halp well these, there are a handy quick-than, there are a handy quick-relations to the control of the properties.

to help you, if your quest is to suc-

ner you and start attaching with no provocation. This throws you undo combat mode, its which you must dedge and parry, watching, as you do, your steagth pound diminishing. Not to worry too much if they dwindle to nothing and you die—Lord British is bounthed, and will do a resturrection you hack at last

"Combat mode" is a feature I dread, delaying movement through the plot, and introducing an element of hick and keyboard hammering the I find uncredibly boring.

Owned, though, Whime IV is very pleyable, and has many secrets in store, waiting to be discovered! If the former appeals to you, they you won't be disappointed — it is the best of its genre! have come across



Mave around the map of Britannia using four direction keys.



commands are easily learned within a few minutes practice play, and conce the technique is mastered, gameplay is very shok

Not everyone in the game is friendly, though, especially the Occs, Ghosis and Skeletons who The gypsy asks you late of tricky questions and natches up points on her abocus.

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NTO VALLEY

being thanked for 'those fining little caizes I get when I last waited the UK', I lat upon the idea of pressing the space har, and the game itself

started.

Perhaps I worked it harkel, for these I was, the day I should be get Ing. mermed, akeping off a bengover after a might out with the lads — in a box? A sixt of hight could be seen at the top of one side, but there certainly dolf? sawen be now.

easy way out!
There was, of course, and it was so



me to do now? Good question.

easy it look me at least twenty minetes to discover how! Now I found myself by some crates

el an airport, with e drizak pilot salesp in the cafetena. One of mymates from last night, I suppose. I

ADVENTURE >>>> CHART

1	Lord of the Rings	Melbourne House
2	Doomdarks Revenge	Beyond
3	Kentille	Mastertronic
2	Asylum	All American/U.S. Gold
8	Mugsy's Revenge	Melbourne House
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2	Atternate Reality	Detasoft/U.S. Gold
8	Worm in Peredisa	Level 9
§ .	Exodus Ultima 3	All American/U.S. Gold
10	Red Moon	Level 9

3333333

ted him some strong coffee, and call for the to the only place I could find on the nature places I could find on the nature places I could find on the nature places. I could find the place I could find the pursue was not in minimum property successful, for alter a which, the reguest saided, and the public them any parachies as to bright them to place the place I could find the place them to personal particle does not personal to the place to t

ward at a impleasing speed.

Infinite Inferso has a mos sense of amoust, excellent graphics, catchy music and smed effects. I kope U K adventurers sell get the chance to play it.



NEWS

 Nine Princes in Amber is the title of a disk game for the 64, from Felanum.
 Besed on two books in the Amber series by new wave schf author
 Roger Zelezny, it's claimed to represent a breakthrough in interactive Fiction, fleeturing up to forty possible

endings.
Described as a game of negotiation, politics, and elliences, progress is determined almost entirely by the player's interaction with other

Your reviewer had hoped to bring you the full outline of this game, but unfortunately he typed SHOUT HELP, the program crashed, and Disk A has never been the same since . . . Wes this a bug, or was the disk corrupt to stert with? If he cen cadge enother copy from the distributors, next month's Velley will reveal all!



Resibird spokesmen Phil Mochen told the Velley that the sound effects on the Amige would be "mind blowno".

The rumour is that the game will ectually speak to you as you wander through certain locations.

But Reinbird have now confirmed that the 128 and 64 versions will not feature the fleshy graphics of the ST and Amiga dream machines.

All three versions will be everleble in June. The Amige version will sell for £24.95. Prices on the 64 and 128 versions have yet to be confirmed — though it is expected that they will cost botween £15 end £20.

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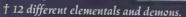
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Join the FEDERATION

With multi-user games getting bayger and better CompuNet ere busy working on what they hope will be the biggest and best.

just as MUD is the computer suthunest's version of Dangeons and Dragoan, Federation II is loosely called based on Traveller, I say loosely based because the programmare at CompuNel have creek reco. the working on new ideas for the sort of locations and twists that only computers can provide

The game is played over telephone lines with up to thirty two other players such sitting at a tering CompuNet or Microsal Unlike Micronet, where you amply summon those commands are acted upon by the computer as soon as you type them. That is important, as you'll

Although the full system won't be finished for a lew months rel. I measured to get a sneak preview of it from Alan Lentou, one of the game's designers and programmers

Baucally, the game is a Irading deme When you first total you del a certain amount of Galactic Credits With these, you key yourself a macecraft, a morely of weapons and enopoli general provisioanto take on your sourney. The name takes place m space, travelling through star systems from planet to planet. There are around 200 planets in the whole game, and around 7,000 locations in all. The computer running Federafrom II ran't hold all 7 000 locations in memory at once, so you'll only be able to visit around 1,300 in one game. Every month or so, a different 1,300 locations will be used so that the game will never be the same twice. Compare this with most advestures where, once you know your year around, things aren't quite as exceing as they were when you

Once you have bought your ship and equipment, you can go off and start earning more and more credits That's really the idea of the game to earn as many galactic credits as you can. Like MUD, them's no echad prize for earning more credits than anyonn size in the known narverse, and you can't actually

achieve Wozard-like status by earn ung them

However, some very powerful commands can be obtained only by buying special pieces of equipment. which cost a lot of credits. For sparsple, a teleporter that enables you to transport voursalf from one bart of

real position to Mare in order to puck up the job, and all that takes time You can't decide half way through that you don't actually want the job - you have to see at through

lust like seal life, you can out out a reward for the capture of someone who shade your own treasure. Typing



interactive gaming in Compunet's Federation. Looks sat to leave M.U.D. looking very grimy.

the name to another at any time you like is sveilable to those that can afford si

The game is both intelligent and novel. There is no swamp, like MUD. where you have to damp gar transure that you get. Instead, you can either keep it, if you that it may prove potentially useful, or otherwase had someone who can make helter use of it than you and it willing to buy it from you for a passmable

Finding a Martian Artifact, any. mey well mean that you can sall at to one of the verpous mobiles that patrol the came. But won need to think somecan on Mare won't pay as truch for a Martian Artifact as someoan on. any, Venus

While buying and asthed is can form of making money, the main way you can type pretty fast, this is the way that lortunes will be made. Occasionally, on the screen, will

pardismos paryes spassom a respes like "Someone is recruited to take a cargo of groumsts from Mars to Tuan within 3 days" The first user to type "accept" ()

told you you had to be able to type fast) note the contract and, when the caree is successfully delivered, the money However, you have to bear in mind below you accept the tob

WANTED' will tell you which players currently have prices on they heads. If someone steals something from you, typrag "REWARD" allows you to put up a

reward. Thee, if a player manages to capture the thord he outs the reward-You doe't actually get back the goods that were stolen, though you have to negotiate that with the person who managed to retneve The game has a sense of hunous,

too. If you spend all the time killing fellow travellers, you'll probably fand the pame referring to you as so-andso the Kaller, or the Destroyer, Quite when and why these names not added m a secret, though it probably wee't take people long to work it out Perhaps can of the most useful

pieces of treasure that you can come arms as a smemal commuter termusal, burned in the rmax of one location. Tap in the correct codes and you will be able to alter your

Pubs & Banks

Marke you can tell something about the programmers who are achally writing the game by the fact that there are lets of Pubs and Banks dotted around the galaxy. Alan Len its malores f'eblace net

Each planet has its own unique character. The biggest growth in-

dustry on Venus, for example, is the experting of drugs. If you come across that planet, you may choose to report the drug barons to the commic police and claim the reward However if you can stifle your core cance and would like to make a bit more mount, it's belief to seal some of the drace and try to sell these.

What you need to know, though, is that the only people interested in buying the drams are on the recon-The moon, so the story goes, was in tally populated by the Majia. You'll need to find Mano and follow him m order to sall your practicus cargo

And Venus sa'l the only place where the game tempts you to step connectiv on the wrong side of the law. Occasionally, when travelling from one star system to another, you will have to pass through mistgalactic Customs. Whether you declare all the things you are carrymr. and nev duty on them, depends that a customs officer will choose to board your craft and search it. Get ting cought will probably result in a heavy fine, but the programment aren'i pertain yel The dumlay that you will see on

Federation II m a sample acrolling text duplay lake MUD. Adding split acreeus or graphics would slow down the system, and also make it too mechine-dependent Like MIID. warm user who has a modern. The name will work at 1200/75 band Prestel like) and also at 300 band. 1200/75, as the faster - and speed is

your computer screen while playing

CompuNet aren't asving exactly how much it will cost to play Federa tion II, but they told me that it can tainly won't be any more than MUD currently costs, which is 1.75 an

H you thank that Federation II sounds like something you'd like to get stuck into, then I'm afraid you'll have to hold on for a month or two

The came will be shown for the first time ever at the Commodore show in May This will be a single user vernos, with a chance to sam ple some of the locations. The full multi user game will probably not be up until early next year, and pertain ly not before this Automa.

Pardon me, 64

by Pete Gerrard

Have you ever wondered how the 64 can make two things happen at once, like running a game and playing a tune in the background? Welf, it's all down to using interrupts. This month we're looking at background tunes — next

month, at granhies.

by In the armin wa're going to discuss part one nam in this 64's expertners, and the same of the same

nathing had happened. In do this, we must look at two im portiant manning locations, locations portiant manning in 50314 and 50315 in hisradicumal, in 50314 and 50315 in hisradicumal. If you PEEK these when you first turn the 84 on, year'll find that they centran the values.

49 and 234 inspectively. The might not tell as very much, but a talls the 54 that severy fitteds of a second or thereadouts it has to make might be to some of the tell of the

This set of contines, among other things, inplates the jiffy clock, checks the knyboard, and generally keeps the mechan tecking over whole your Basic or mechan code program continues to any mentity on.

Use memby on.
These two locations are collectively known as the Hardware interrupt New York 1997 in a third From new oil, and great the 1997 in a third from new oil, and great the 1997 in a third from new oil, and great the 1997 in a third from t

Altering registers

To alter the content of the HV just regrams in straightforward POKE, like this perhaps. POKE 748,00:POKE 783,182

to send program execution off to a rostum storting at location 192,00 (\$C000 in hexadicimal) every fiftieth of a sacond and perform whetevor operation it finds those, below sitmately wriging its way back to the roution baginning at \$EA31 as issued This is very impartent, we might divert the HIV, but I has to get ta \$EA31 aventually, othorwish everything will come to a grinding halt. But so far there san't a rentine star ting at location \$CEOD, or whatever so what should we got there? The answer is that we can put anything wabke, elweys remembering to get back to 4EA31 in the ted So, type to and run the following short listing.

10 FORI-OTO12:READA: POKE45152+1,A:NEXT 20 ENO 100 OATA 188,001,141,008,004, 168,000 141,000 216,004,004

234.
Not vary spectocular all this does as to display a latter 'A' in the top left hand come of your screen, by altering the

HIV to go to \$CODE before going to \$EA31.

To go back to \$EA31, you semply

POKE 788.0:POKE 788,182
Now, whatever you do, that heart will
stubbornly samale on the screen,
miles you change the background col
our to black and scake it seemingly
disappear that way

To seture the 64 to epimel, enter: POKE 788,48:POKE 789,234 and of well be as before

Down To Business

Well, that's the theory, just put n rentere into some convenient place in mamory, and then after the HIV so that it's diverted to go to your routine lists, before trapping off to 45,431 ex suppl.

Below, you'll see one wonderful background masso program And we can treat this in exactly the same way as the simple centre we've not typed

To asplain the last law lines of the program, lines 10 to 40 reed in all the date and POKE it into the appropriate part all memory.

Linus 100 to 120 should be femiliar shough to envisor who has debbled with some on the 54. The variable 9 is declared to be 54.72, and that the program sets up valume, ADSR set tings and so on for some times.

The SYS calt at line 130 ectivates the routine, and the next line POKEs a set of values into zero page that well lates be ased by the machine code program stack.

You needn't worry about allowing those, but obviously you can get the



Make use of interrupts ADS also inc. settings to be whetever you must be also the control of the salter this werefore, 1900 must

Part one

10 SE = 49152 *FF = 4945a

20: 30 FORI = SE TO EE : READ A : POKE I . A : NEXT

40 s

100 V=54272: POKEV+24-15 110 POKEV+19.30: POKEV+20.36

120 PGKEV+16,250; PGKEV+17,40

130 8Y849152

140 POKE251.178; POKE252.192; POKE253.178; POLE254.19

150 FND

50000 DATA 234,234,234,120,169,080,141,020,003,169 ,192,141,021,003 50001 DATA 088,234,234,096,120,169,049,141,020,003

.169.234.141.021 50002 DATA 003,088,234,096,234,222,222,222,222,222

50003 DATA 222,222,222,222,222,222,222,222,222 ,222,222,222,222

50004 DATA 222,222,222,222,222,222,222,222,010,008 .000.065.000.000

50005 DATA 000,000,000,000,000,065,000,000,000

.234.234.234.173 50006 DATA 066,192,240,004,076,049,234,234,206,045

,192,208,247,234 50007 DATA 234,234,173,064,192,141,065,192,234,230

.251.208.002.230

50008 DATA 252,234,160,000,177,251,201,255,240,040 .234,234,234,234

50009 DATA 160,000,141,015,212,230,251,208,002,230 ,252,234,177,251

S0010 DATA 141,014,212,173,067,192.072,169,000,141 .018,212,104,141

50011 DATA 018,212,234,234,076,049,234,234,234,234

.165,253.133,251 50012 DATA 165,254,133,252,076,100,192,000,000,000 ,000,002,103,002

50013 DATA 103,002,179,002,179,002,220,002,220,003

50014 DATA 154,003,154,002,220,002,220,003,154.003 ,154,000,000,000

50015 DATA 000,003,154,003,154,002,220,002,220,003 .154.003.154.000

50016 DATA 000,000,000,003,154,003,154,002,220,002 .220.003.154.003

50017 DATA 154,000,000,000,000,002,103,002,103,002 ,179,002,179,002

5001B DATA 220,002,220,003,054,003,054,003,154,003 .154.002.220.002 50019 DATA 220.003,154,003,154,004,207,004,207,004

,073,004,073,003 50020 DATA 154,003,154,002,220,002,220,003,054,003 .054,003,154,003

50021 DATA 154,000,000,000,000,000,000,000,000,255 , 255

PINE 49219, WF when WF is thin nsnel 17, 33, 65 pr 128

Then comes the data which not only contains the muchino code contine that takes care of everything, but also the data for the notes that the 64 is going to play in this case, the Hall of the Mounteen Keng Later on wa'll see how memory, up to a maximm of around

How it works

The mechane code program is goin short, and essentially seet reads values atmed in memory and deposits them in the appropriate facations for playing a note for vesce three, before corru off to \$EA31 as usual Now this is where yon come in

The data for fin notes to be played starts at location \$0083 for 4933f in decimal) (now at line 50012 up the data statements. At the end of this you find the values 002,103,002, with a f03 at the start of line 50013

These sepresent the high and low framusticy values for various notes and tall the 64 to play what your 64 margal refres to as note 0.1, followed

So, to enter your own time, work ont what the notes ere, turn to the 64 mannal and find the high and low fre quoncy volues for that note and after the data statements, or POKE the values into memory. If you want to in-

traduce e peuse, entre both high and low frequencies as zero When you've got the complete time ento mornory, enter the values 265,265, and when the program tarches that it'll loop all the way back

to the beginning and start again. You could use all three wares it you wanted to, mainly by immore from one routing to enother before breading off for \$EA3f as manal, but that is left for you to expension with

back to normal sours, type

POKE 54299 D-SYS 48170 As you can see, the HIV, if propar

ly handled, or a namerful beaut, and can be used to stratch the 64 that little hit forthar than narmal, Prodocing backgroned music as wa've done here is just one possibility, but there is no reason why leterinpt driven routines such as this one cannot be linked together to perform a whole host of different activities, anch is the appard of machina-coda.



Tried and

Utility Software

Fred Reid

Tried and Tested is our new regular spot in which our expert reviewers tell von exactly what they think of the latest products. This month. we've rounded un the bargain-basement Videom graphics program, The Expert cartridge and the Discom utility disk -

all for the 64.

Vidcom 64I

I've seen a lot of graphics packages in Vidcom allows the Commodora's VIC chip a full head of steam right choose between the better harmontal the colour choice of 'multi-calour'

Military region ramanes aver to year Menu choice

While Vidcom accepts impal from the 64's keyboard, using a joystick or menu and and part of one of two

As you'd expect, selecting a well either start to flash or stop-Bashing, and you will hear a rather pleasant two-tone blesp. As the prich rather than drawing! The system uses three separate

many? It's quite logical really, when you leave the drawing screen, the used in the curcle and box functions to

the tiron at all, pressing the CBM key

One of the advantages of success the

Special features

Next to the magnification window are three function boxes for swapping. colours and the pen state indicators

colons, and drawing with this pen is The remaining sixteen boxes are for

Isseband, errole and line moder handling facilities. All the box and poess again in his like size of the The box inschon lets van draw hores colony box areas, erase boxes and

Three special functions are also reflect produce merror unages of the Defractions mode is reached by

pressing I3, and the right-hand portion characters and sprike There are 32 vanr own defindence.

Pallerns can be used to fill enclosed areas of the screen with Jesture

elfect is best compared with spraying

definition' function. This works by literally analching a part of the In multi-colour mode (selected from

Pressing IS takes you into m/cel assign them to any of the pean and then. Legislates. Pressing 17 loads a directory so olien mused by more expensive

The manual takes the form of a

Conclusions

Don't be put off by the £4.33 price too. This as the business! I would bave un besitating in recommending this package in gayone with a \$4 and an arisitic streak indeed Vidcom is plready an

essential part of my collection. CRL tell me that a disk version is not planned at the mament, but if the cossette sells well fond f're sure It will) then it may well appear.

- · Vidcem 64
- Commodere 64/128 CRL Group Tel: 01-533 2918
- · Price: £4.99 (cess)



Menu grid oppoors either at the top or bottom of the screen disappears altogether.

tested

Discom 64/ 1541

Director is a small collection of disk back in Banc. From the first mean, ablitres for the Commodore 64, that four out of seven opiness do nothing belos keep your disk bles need and more than can be done very settly in can't accomplish with a simple Basic 'OFEN15.8,15,"SO FILENAME" bayen't seed unblished in manazines, there is a disk to disk file copier and a and books so you can imagine my file protector A his approtector

Alter a lew minutes, Discom the frie scratchable again The second mans offers shahily Pressing 'W toggles between merus, more A disk becking utility will some of the way towards explaining

BISCON FILE SECKUP (SAME SISC-MEM HAME). DP (SEM SISC-SAME SAME). FILE PROTECTOR.

Do you really need Discom to do all this?

won the pumber of blocks free! There is that protects a file Irom berno Loaded(?) The only useful souther restore a fule name to the directory

after it has been scratched, providing The manual is very binef and nows

new disk, providing there is no protect groups in that although it explains Discoun for any further operations. The Also mexicusable is the lack of worth of software to a few seconds if

- 9 Discom 64/1541
- e Commodore 64/128
- · Initiative Managers Ltd Tel: 08846 60701 Price: £14.95 (disk only)

The Expert cartridge



To me mod. The Ernert is the first tage to-disk system that seems to work with any software. Using the Expert. I found at easy to transfer or beck-no all simply, quickly and without needing

besed, the cartridge contains RAM.

The Expert acts on the program once it is loaded into the computer. rather than trying to read the date on

Before beginning a transfer, you will need to prepare a disk, After from the Expert disk, and Save it When run, this file produces a

and fast loads the one of your choice Most transferred files will load (the most cassetta turbo systems! For evaranter et took me about 16 eunates to transfer Undow to disk, and it loaded back in a mere 27 seconds! probably be able to it four or five games onto one disk, with near unitable

Obviously the Expert has it's averation (like Korons Riff) won't work, and I've had some trouble with games like Elife that allow you to load and save high scores or player data.

the cassetta. This means that Expert Trilogic make no promises of total RAM+BOM map, making it very easy leader that the software uses. Once produce appraded software to cope with problems like these On the whole worr average dame can easily

Monitor and **Assembler**

The Expect is not just a inpoin dishidisk to-disk utdaty, but also a very monitor and assembler All the small think how muny naw consette features are present ractuding disassembly, loading, saving and memory dumpa, plus some rather

The save function allows you lo memory, a disk directory can be straved at any time and the dish arror . The Expert certridge channel can be read

routines' Perhaps the most useful occupies so memory & can Intelly

compainted by hel do mised to to save the contents of the normally

technically minded among us

At just under £30 The Expert would aseem to he good votton considering the quality of the machine code monitor, although games you could buy for the same performs to lot hetter those other proe-to-disk systems ground, so It's worth chacking it ont.

- · Commodore 64/128 e Trilogic
- Tel: 0274 684 289 e Price: 526.95 (cart. end disk)

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Commodore's reprieve

Dan Gutman reports

The hi-tech gravevard is companies that shot to fame only to be buried in financial ruin.

Commodore International has been tottering on the brink of disaster for some time - or so the

pundits say. So could the end be nigh for Commodore? And how could its demise affect

et me ask you all e question what would hoppen if Com I modure went had?

That a abooker, hub! You usually don't see these types of thorough Commodore magazines, do you full of computer Magazines that are devoted to can computer or one company usually do news oels swoot under the run.

Well not hare, pal. A few months back. Commodore came closer to bankrapicy than they would like ony of us to believe I know people at the twant their desks.

I don't want Commodore to so under You don't want Commodore to go under. Commodore User doesn't want Commodors to go under Comop of law freech viscosted evolute lust what could keppen if Comthat solivers for all Commodore machines would slow to a trickle, both more and more difficult to find parts. permherals, and get our computers

renaired when they mevitably break You'd see fewer and lewer ads for Commodore products, and the advertising revenue could start to disappear. The magenine you hold in your hands could very well disappear. That lot is no soke - s'a happene

Belaz. It can't happen to Com nodore. At least not notil March 15,

I'm going to be throwing a lot of sambers et you here. If you done off, met slap yourself awake You should know what's going on with the company that makes your computer. I'll try of to get too beavy.

Facts and figures

just three years ago, you'll recall, Commodore was the king of the kill. The 64 was a sort of "Volkswager of computers" and the company sarned a massive \$144 million in 1984. In the US, they colled over everyone in the bucches Texas Instruments, Mattel Coleco, and Sinclair had to pull out.

Since then, t'a yest been a lot of had news. The Vic 20 got old and died a death. The 64 was overwhelmed by parrier and more powerful machines The Flus/4 and the Commodore 16 were in the States) And the Amina didn't exactly blow the world away In the quarter that ended on December 1st, Commodore lost \$53.2 milion compared with a \$30.9 milion dollar profit from the year before Sales were drawn 14% Inventory levels reached \$449 million after Christmas m 1985 People samply stopped buying

Since the end of 1984, Commodore has lost \$206 million. Two hundred and six milbon! Pounds or dollars, that's pany wouldn't have been able to pur-

you it if they hadn't been so successful a few years soo. So they started cutting costs. An

Commodore loans \$22 maless as the m April Commodore slathed the process and the total work force has of the machine in the States by 39% (or dropped from 7,000 to about 3,900 m \$500). That move in particular was

Ugly Rumours

Naturally, the remount started fiving prolling Commodore was come to op cel of was going to merge with somebody. Suround the cornet.

talle Adics, Amino? Commodore flats with failure. The trade journals removed that Commodors was "noused on the adds of disaster."

The whole thing came down is October, when Commodore's existing loan egreements with its creditors came due. For a comple of days, it was tilly Could Commodore pay its debts? Would the banks continee to lose them. money so they could keep operating Or would they decode to pull the plan and close the doors of the biggest

home computer maker completely During this period. Commodore was se "tuchoscal default" of its loans I don't know exactly what that means. but I know it doesn't sound good

Sorrowed Time

Well, those worked out okay. -

plass Commodore reached an egresment with a worldwide consortium of hardy for a \$135 million loan package that's all that Commodore was salling decision, basically saving that Commodore is worth more alive to the banks than it is worth dead. The agreement extends antil March 5, 1987 It things don't start looking up by then, the problems will start up again.

But things are looking better already. The Commodore 54 and the 128 are salling, and Commodors claims to be making money again. Tom assembly ppersion in Cork, Ireland Reitigen (formerly with Paper) is now and a semiconductor plant in Costs the head of the company. Amiga soft-Mesa, California were shut down, with were is finally starting to oppear, and

> long overdue. If they'd chop off a few more dollars, the thing might be affordable to the people who want to buy if The loan agreement buys time for Commodore - time to get the Assign

So don't go shopping for some business Or, if they were going to stay wother computer brand just yet. Comin business, Commodore was going to modore has been through the good modore went out of burners? It's likely base to be acquired by a bagger com- times and it's been through the bad name to rame cash. Or. Commodore Stimes. Moybe the next cycle is past





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Benga Censtruction Set is a hiterious family sems. Bon fevels. You can design your own steges uping the joystic

ace Files, the legendery here, is under constant ett

Space Fidel, the leganderly hero, is under constant exactly standards with one all mit dischards only in the cart. The allen craft attack singly or in battle formation. Equipped with heat making measing, then stands is deadly as well as salanting. Space Filed with full 360 degrees ling and four stages, damanding even in es all aspects of a smanb bit on CRM 64.

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MUSIC KEYBOARD

by Malcolm Laurie

For the 64/128

Can't alford to buy the Commodore Music System we reviewed last month? No matter, because we've got a music program for you that's not only free, it's neetly good too.

No complicated instructions; you simply use the keys indicated on the screen to change any of the sound parameters. For example, you'd press A to increase attack and Z to decrease it. Apart from the AIDR envelope, you can play around with filters, octaves, pulse rate, voices and a whole lot more to get some really impressive sounds: if great — try it.

```
O POKE53265.43
1 POKE53270.24
2 POKE53282.9
3 POKE53283.7
9 POKE53280.8: POKE53281.8: PRINTCHRs: 141
10 DIM MES (13) : DIMXS (15)
11 FORT=OTO13: READMESIT: NEXTT: FORT=OTO15: READXSIT: NEXTT
11 FORT—TOTOLS READMES IT! NEXT: FORT—TOTOLS READMS IT! NEXT: DORT—TOTOLS READMS IT! NEXT IN THE PART OF THE PART 
45 FORT=55296T055575:POKET.0:NEXTT
46 FORT-1024T01302: POKET, 160: NEXT
50 PRINT" (HOME) (GRY3) -
51 PRINT"(OFF) | WHT| | RVS|
                                                                                                                                           IRGHTI
                                                                                                                                                               RGHT
                                                                    (RGHT) (RGHT)
                                                                                                                      (RGHT)
                                                                                                                                                                                            (RGHT)
   (RGHT) ) (RGHT) (RGHT)
                                                                     (OFF) (SRY3) 1":
52 PRINT"|OFF||(WHT)|RVS|
                                                                    (RGHT) (RGHT)
                                                                                                                       ( RGHT)
                                                                                                                                           (REHT)
                                                                                                                                                                LEGHTI
                                                                                                                                                                                            IRGHTI
   (RGHT) | (RGHT) (RGHT) (OFF)|GRY3)|";
53 PRINT"|OFF)|(WHT)|RVS) |RGHT) (RGHT)
                                                                                                                                           (RGHT)
                                                                                                                      | RGHT|
                                                                                                                                                                (RGHT)
                                                                                                                                                                                            (RGHT)
   (RGHT) | | RGHT) | (RGHT) | | OFF) | GRY31 | 1/2:
54 PRINT"(OFF) ((WHT) (RVS) (RGHT) (RGHT)
                                                                                                                      RGHTI
                                                                                                                                           I RGHTI
                                                                                                                                                                I RGHTI
                                                                                                                                                                                            (RGHT)
   (RGHT) ( | RGHT) | RGHT| (OFF||GRY3||"-
55 PRINT"(OFF) | | WHT) | RVS| (RGHT) | RGHT|
                                                                                                                                                                                            IRGHT)
   (RGNT) ( (RGHT) | RGHT) | OFF||GRY3)|";
56 PRINT"(OFF) | WHT) | RVS) (RGHT) | RGHT)
                                                                                                                                                                                           (RGHT)
   (RGNT) ( (RGHT) | RSHT) (OFF||GRY3)|':
57 PRINT"(OFF) | WHIT | RVS)
                                                                                                                                                                 (OFFIIGRY311":
60 PRINT"(OFF) | (WHT) | RVS) Q| W| E| R| T| Y| U| I| O| P| 0| " | f(OFF) | GRY3) | ":
61 PRINT"
```

LASY

73 PRINT "REMOVE REMOVE TREATT REMOVED
190 S=13*4096+1024:DIMF(26):DIMK(255)

200 FORI=CTO2B: POKES+1.0: NEXT

continued on p.77



AN EDITOR, ASSEMBLER, MONITOR AND ANALYSER THAT REPRESENTS A NEW APPROACH TO MACHINE CODE DEVELOPMENT.

THE EDITOR

Produces tokenised source files which occupy much less space than standard BASIC files and accelerate assembly to 20,000 lines per gninute from memory. "Full screen editor with 15 ammediate commands that allow powerful and flexible text handling."

THE MONITOR

All the features of a relocatable front-panel debugger plus:

* Disassembly to screen, printer with CALL and JUMP labe authoratically generated

* 4 slow running modes with a trace facility that allows the poth of a program to be stored so that buys can be traced . back to their source.

17 types of breakpoints are available—up to B can be set at any one time. Options include "down-count" and control of slow run-modes. Breakpoints can be set in ROM or RAM.

THE ASSEMBLER

A full two-pass macro assembler (co-resident with the editor) with conditional assembly and cross referencing.

Built to coloulate fuells.

- * In disc mode files can be included from flobby
 - Commodore and Centromes printer compatible.

THE ANALYSER

A dampletely new concept in program debugging. This unique wiltly allows you to execute up to ten analysee programs that scrutimite your machine code program while it is running. When a particular condition is found the program will break with an option to trace the point taken.

For example, if a program crashes, writing extraneous data to the screen, the analyser can be set to run the program up to the pothat a "write" is made to a particular area of the screen. The both crast bein he listed to find where the accordinated



- - 210 F1=7040:F0R1=1T026:F(27-1)=F1*5 8+30:F1=F1/21(121:NFYT
 - 220 Ks="Q2W3ER5T6Y7U1900P8-*£1 230 FORI-ITOLEN(KS):K(ASC(MIDs(Ks.1)))-1-NEXT
 - 250 WV=16 · M-8 · HB=256 : Z=0 : RT=8
 - 260 FOR1-0TO2: POKES+5+1*7 AT*16+DE: POKES+6*1*7.SU*16+RE

 - 300 GETAS: 1FAS- ' 'THEN 300 310 FR=F(K(ASC(A\$)))/M:T=V*7:CR=S+T+4:IFFR=ZTHEN500

 - 340 POKES+T. FR-HR* 1NT (FR/HR)

 - 370 POKECR, WV+1
 - 386 JEPEC >64THEN385 390 POKES+6+T SV

 - 601 1FAs= Z"THENIN=-16:GOTO2070

 - 605 IPAs= 'X "THENIN -- 1 SOTO 2090

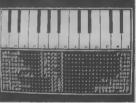
 - 610 IFAs- G" [HENEN-16:GOTU2040
 - 611 IFAS-"B"THENIN=-16:GOTO2040
 - 617 IFAs="J"THENIN-16:GOTD2050 618 1FAs="M"[HENIN=+16-GOTO2050

 - 1002 PRINTAAS::FORT=GTODO:PRINTDOS::NEXTT:PRINT'(RGHT)(RGHT):XS(X/N1)
 - 1003 AV=A+D:SV=SU+F:RETURN
 - 1100 X=X+IN: XX-XX* XC: IFX=LITHENXX=XL: X=0 1101 PRINTAAS::FORT=OTODO:PRINTDOS::NEXTT:PRINTMES(X+ZX):RETURN
 - 2000 X=OC:XX=M:XL=8:XC=0.5:DO=8:IN-1:LI-4 ZX-4:GOSUB1100:OC-X:M-XX:GOTO300 2010 X-W XX-WV:XL=16:XC=2:D0-7:IN=1:L1=4:ZX=0:GOSUB1100:W=X:WV=XX:GOTO300

 - 2030 X=RR:XX=RT:XL=8:XC=2:D0=10:1N=1:L1=4:ZX=10:G0S(B1100:RR=X:RT=XX
 - 2033 1FRT>8THENPOKE54296.RT+15:AD=7

 - 2040 X-R-D0-4-N1-16:GOSUB1000:R=X
 - 2050 X=PU:DO=6:NI=16:GOSUB1000:PU=X





by P. Walker

For Plus/4 and C16

Written on the Planid, Tunnel also works on the 16, but have to steer some spaceship down the trained picking up Inel camsters whilst avoiding stationary objects and the occasional guided missile. Professional quality graphies and nice sound ellects combine to make a challenging little dame. Full instructions annear on screen



10 REM *** TUNNEL ***

20 REM *** FOR PLUS/4 ***

30 REM *** BY P WALKER 4/4/86 ***

40 COLOR 1.1:COLOR 0.1-COLOR 4.1:PRINT (CLR)

60 S-DEC("3800")

70 KEY1. POKE65298. PEEK (65298) AND 251 - POKE65299, PEEK (65299 | AND 31 OR "+STR\$ (5/256) 80 REM *** SET VARIBLES ***

90 POKE 55 0 POKE 56 56.CLR: S=DEC(3800 1

100 PRINT" (CLR: MONITOR " PRINT" (DOWN: (DOWN) (DOWN) (DOWN) T DOUG D7FF "HEXS (S)

:PRINT '(DOWN) X

110 PRINT' (DOWN) POKE65298, PEEK (65298) AND251 - POKE65299, (PEEK (65299) AND3) OR 5/256 120 PRINT (DOWN) (DOWN) RUN 140°

130 POKE 1319.19:FOR A=0 TO 4-POKE1320+A.13 NEXT-POKE239 6:END 140 S-DEC('3800')

160 DATA 65.35.205.153.153.90.90.00.24 170 DATA 0.12a.195 207.199.207.207.207.126 180 DATA 27.0.255.0.187.167.0.255.0 190 DATA 28.248.70.187.167.0.7.248 200 DATA 29.31.224 0.187.187.0.224.31

210 DATA 88.24,24.60 36 102,255 195.195 220 DATA 81,126,195,207.195,243,243,195,126 220 FGR 1-1 TO 8-READ A-FOR C-9 TU 7 READ 8-POKE S+(8*A)+C.8 NEXT-NEXT

280 G=15:X=20.Ps='

330 M=0-MX=0 MY=23

350 PRINT (DOWN) N) (DOWN) (DOWN) (DOWN) (DOWN) (DOWN) (DOWN) (DOWN) (DOWN) (DOWN)

360 A=INT(RND(1)*3) 370 IF A=1 AND G< 26 THEN G=G+L

380 1F A=2 AND G>8 THEN G=G-L

390 GET AS

```
400 IF D-1 THEN GOTO 1320
410 1F As- THEN X=X+1
420 IF As='." THEN X-X-1
440 CHAR 1,0,24, ' PRINTOS, (UP) : SPC(G) PS
450 FU-FU-1 PRINT" (HOME) (GRN) (HVS) SCORE S
470 PRINT" (HOME) (DOWN) (RVS) (RED) PUEL: ' FU- (OFF)
480 COLOR 1.C.4
490 IF FU=0 THEN D=1
500 GOSUB 660
520 IF 0X<27 OR 0X>29 THEN POKE (3072+X) 83-POKE (2048+X).113
530 IF OX=81 THEN S-S+5: IFM-OTHENFORI-ITO7: VOLI . SOUND1 . I*100 . I . NEXT
560 IFOX=OTHENFU=FU+10:1FM-UTHENFORI=1T07-VOLI:SOUND1.800.1:SOUND3,1004,1-NEXT
570 IF PS()"
                         " THEN PS="
                                                 "-COLOR 1,C,4
580 IF INT(RND(1)*4)+1=3 THEN J=INT(RND(1)*10)+6:POKE3992+J.0.POKE2968+J.53
590 IF INT(RND(1)*10)+1=3 THEN J=INT(RND(1)*10)+6:POKE3992+J.81:POKE2968+J.68
600 IF INT(RND(1)*10)+1=3 THEN J=1N1(RND(1)*10)+6:POKE3992+J,65:POKE2968+J,50
610 IF INT(RND(1)*6)+1-5 THEN PS="(BLU)£[[[[[[[]]
620 P=P+1:IF P/100=INT(P/100) THEN C-INT(RND(1)*14)+2:COLOR 1 C.4
640 L=0.5*INT(S/200)+1
670 1F M=0 AND 1NT(RND(1)*20)=5 THEN GOSUB 840
690 MY=MY-1
700 1F MY--I THEN M-0-GOTO 830
720 IF T>8 THEN T-8
740 IF INT(RND(1)*10) >T THEN GOTO 830
750 POKE 3072+MX+(MY*40),OM
760 POKE 2048+MX+(MY*40).CM
780 IF MX>X THEN MX=MX-1:F=1
790 IF MX<X THEN MX=MX+1:F=1
800 IF F=1 THEN OM*PEEK(3072+MX+:MY*4U)) CM*PEEK(2048+MX+(MY*4Q))
830 RETURN
840 M=1 MX=G+5:MY=23
850 VV=MX+((MY-1)*40) -OM=PEEK(3072+VV) -CM=PEEK(2048+VV)
880 PRINT"(CLR)
900 CHAR 1.14,10, (RVS) (PUR) BY P. WALKER(OFF) "
910 CHAR 1.7.12. (GRN) DO YOU WANT INSTRUCTIONS/
950 GOTO 920
950 PRINT" (CLR) (RED) YOU ARE A SMALL SPACECRAFT: (WHT) w
978 PRINT"(DOWN) (CYN) (SHOWN AT THE TOP OF THE SCREEN)
980 PRINT (DOWN) (ORNG) TRAVELLING DOWN A LONG TUNNEL.
990 PRINT (DOWN) (PUR) YOU MUST DODGE VARIOUS OBSTACLES,"
1000 PRINT '(BOWN) (SRN) AND COLLECT FUEL CANISTERS
1010 PRINT (BOWN) (BLU) IF YOU RUN OUT OF FUEL HIT AN OBSTACLE"
1020 PRINT" (DOWN) (YELIOR HIT THE SIDES OF THE TUNNEL YOU DIE. "
1030 PRINT" (DOWN) (ORNG) YOUR FUEL IS SHOWN AT THE TOP LEFT"
1040 PRINT' (DOWN) (BRN) OF THE SCREEN IT CAN GO NO HIGHER THAN"
1050 PRINT" (DOWN) (LRED) 99 FUEL CANISTERS ((GRN) @(LRED)) ARE COLLECTED"
1060 PRINT" (DOWN) (GRY1) BY RUNNING OVER THEM."
1070 PRINT (DOWN) ($130) (RED) PRESS THE SPACE BAR TO CONTINUE($132)
1080 GET AS.IF AS<>' THEN GOTO 1080
1090 PRINT" (CLR)
                                   (RVS) (GRN) OBSTACLES - (OFF) '
                                (ORNG) OTHER SPACESHIPS-DO NOT HIT!
1110 PRINT (DOWN) (GRN) 8(WHT) ... (BRN) FUEL CANISTERS-COLLECT THEM: 1120 PRINT (DOWN) (PUE) (WHT) ... (BRN) BONUSES-COLLECT FOR POINTS!
1130 PRINT (DOWN) (BLU) £()) (LRED) BRIDGES-YOU WILL PASS UNDER
                                                                              continued on p.80
```

```
1346 PRINT"(DOWN) (LRED) THEM AUTOMATICALLY WHILE UNDER BRIDGES
 1150 PRINT"(DOWN) LEEDIYOU CANNOT SEE YOUR CRAFT."
1160 PRINT"(DOWN) ICYNI+... (GRY2)GUIDED MISSILES.
1160 PRINT (DOWN) ICYNI+. . (GRY2/SQUIDED MISSILES THESE WILL
1170 PRINT (DOWN) IGRY2/FLY TOWARDS YOU THEY TURN QUITE SLOWLY"
1180 PRINT (DOWN) IGRY2/FLY TOWARDS YOU THEY TURN QUITE SLOWLY"
1100 PRINT'(DOWN) (GRY2) MEAN OF THEE APPEAR THEY MAKE A SOUND"
1200 PRINT'(DOWN) (GRY2) MEAN OF THE SOUND  1220 GET AS IF AS=CHR$(13) THEN GOTO 1250
 1230 IF As- A THEN SOUND 3,1023,10
 1250 PRINT" (CLR) ": SPC(17) . '(RVS) (CYN) KEYS- '
 1260 PRINT IDOWN | DOWN | DOWN
                                                                                                                                             (RED) (WHT) ... (GRN) MOVE CRAFT RIGHT"
(RED) (WHT) ... (GRN) MOVE CRAFT LEFT"
 1270 PRINT" | DOWN: | DOWN! | DOWN!
 1280 PRINT (DOWN) (DOWN) (DOWN)
                                                                                                                                                                      (RED) ($130) PRESS SPACE BAR TO START($132) "
 1290 GET AS
 1300 IF As<>' THEN GOTO 1290
 1310 RETURN
```

1320 REM *** DIE ***

1330 FOR 1=8 TO 0 STEP -1 SOUND 3.1*100.5 NEXT 1340 PRINT" (CLR)

LEVS) (\$130) (RED) YOU DIED!!! 1350 PRINT" IDOWN IDOWN I DOWN IGRNIBY HITTING THE WALL"

ICYNIBY BEING HIT BY A MISSILE IPURIBY BEING HIT BY A SPACECRAFT" (BLUIBY RUNNING OUT OF PHEL 1400 PRINT IDOWN I DOWN (WHT) YOUR SCORE WAS: (LEFT) " - S

1410 IF SOHS THEN PRINT (LRED) IDOWN WHICH BEATS THE HIGH SCORE . HS-S 1420 PRINT I DOWN | I DOWN) (ORNG) HIGH SCORE: ": HS IREDIIS1301DO YUU WANT ANOTHER GO?

1450 IP As='Y" THEN GOTO 270 1460 IP As='N' THEN PRINT"|CLR|"-END 1470 GOTO 1440

Our New Easy Enter system makes program entering evan simpler. It works like this

Control codes appear in plain English Lalways maide brackets). Jinst that you can chack you ve got a right

Actnel graphic characters are not changed and appear as they do on

Control Codes

		_
IUPI	press cursor no key	D
IDOWN)	prese cursor down key	0
ILEFT)	prese carsor left key	п
IRGHTI	press corsor right key	E
(HOME)	press HOME key	E
ICLRI	press SHIFT/HOME	100
IINSTI	press SHIFT/DELETE	
(RVS)	reverse on	13
(OFF)	reverse off	
(F1)etc	press function key indicated	-
(\$130)	flash on [16 and Plas/4]	11
(\$132)	flash off I16 and Plns/41	-

Colour Codes

1BLKI	press CTRL and 1	
(WHT)	press CTRL and 2	a
(RED)	press CTRL and 3	FX
(CYN)	press CTRL and 4	K
(PUR)	press CTRL and 5	36
(GRN)	press CTRL and 6	17
[BLU]	press CTRL and 7	E
(YEL)	press CTRL and 8	<u>=</u>
[ORNG]	press CBM and 1	
[BRN[press CBM and 2	Pa .
ILREDI	press CBM and 3	
IGRY11	press CBM and 4	•
(GRY2)	press CBM and 5	
(LGRN)	press CBM and 6	
(LBLU)	press CBM end 7	<u>D</u>
[GRY3]	press CBM and 8	
Note, sei	condary colours on the) 6 and Pins/4 a

shahtly different to the above



WHITHHAR!





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entreprineurs ac both sides of the law, ac discussed
the world seem of the cruwers. The inhabitions
are on the brists of stayrulors and will are on the brists of stayrulors on ond will gue
arything to anytone who can get through be them
with a stap of seppher from the activity world. with is stup of scipines from the octsion wohn, if you're tipe of a children and left of controlled in the role of Space Freighter Point of the first of the firs



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Lare of the West's associating interesting of water puts you be the madel of tachchen Old West oction. As the Shent' of Gold Gold — as loogh a Wild West low or likere even war — you'll iron all you one da to sarvine tal sandown. now oll you can do to assume his sandown. If you've ever wanted to put a fin ster to your chest and could the exploits of a Bal Masterson or Wysit East, then heavy your chance. Ultra-large graphics, lifetile action and calcard playebility deliver excrement so real you can should smell the secondary.

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balls or days for grounders. Play ball!

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Get more from VIZASTAR by Goof Wheelwright

While IBM users were busy marvelling over the achievements of a little piece of US software known as Lotus 1-2-3. UK Commodore 64 owners have for the past couple of years had access to an equally

impressive spreadsheetbased integrated software offering from Viza

as VizaStar. To help experienced users get to grips with all the features in this impressive package, we

asked Viza's technical more effectively? support manager John Dunn to supply us with the questions he is most often asked about how to hest use VizaStar along with his answers. sheet COPY command is given.

In nacas where both sorting and nameric m equations form part of the work needed doing on a file, how do I determine whether to use the sorradahaat er datahasa

In general, use the database where you wish to store large volumes of informa tion in a standard format, such as names and eddless files. Use the worksheet to do calculations where von want to see the affect anchir but in beforther your income. It's estably easies to use locatalise referring to the software known simply correct sected than to determine to sheet - as this allows you to use the same worksheet for celculation.

> Do you have any peneral advice on how I can enter my worksheet information Use the F1 key to enter cell references into a formula. Use F2 to enter an all soluta cell refruence into a cell NOTE: Didinary cell relatences are adjusted when sheet data is copied to reliact their new position relative to the original cell or range: absolute cell references are not adjusted when the I have problems asing my printer

What about nall farmatting? How da I farmat a group of cella is appased to satting the formet in the whole sheet? To set the format of a range of calls, ase the sheet format to set a single cell then copy the cell sets the ce gnired range

I find that mamary can set tight on a larger 40; endsheat, How nan I ansare that I don't senender тетоку? To conserve weeksheet memory one a abent those of us who want to

wider cell width to space out your use the detabase a lot more sheet, issued of leaving empty col- affantivaly. What can you nmns Try to work mostly either along unagest?

My printer meaned save there are a namber of m energial effects I can achieve by using 'Escana nades' from my applications. What's the best way of nothing at these in WizaStar? You can tour on special pontsu modes

by typing the ESC codes used by your printer into a cell in the workshort called the SETUP call. Type a single quote as the fest character followed by the lat et codas as decenal numbers le o. 27 for ESC. etc.) with a space but were such value Chenge the setup call in the over actions meen to show the reference of the cell in the worksheet where you have typed the pixites codes. The codes in the SETUP call will be sent to the pointer belove. any worksheet or detetace minime tion. You may send a secondary ad dress to the nexter by typing a lower case letter as the lirst entry in a set-up cell Use 'A' los 1, 'B' for 2, etc.

What's the best way of nantrolling the internal manas line namets. Why do when daing this?

To allow Hexibity, VizeSter does not reset the internal paper lies count after each time the print command is issued This allows you to print several rows perticular information you went or ranges from different areas of the worksheet and the paper will be antomic scally spaced up to the start of the sext page land the lanter and header cells grinted out if present) when the number of 'linus in page' (see | Cartainly VizaStar supports all Cen 'onnt actions' section in the market for more details has been seached Issue top command if paper has been re aligned balane proting.

The above suggestions are all fine if you're some the spreadsheet a let, kat how

tows or down columns - not in both First of all, you might think about give directions at norm. THATA HISE FILE' command to create a new database or load on old one VizaSter will antomatically piece you m the data setup mens to design the life invest. Use the 'paint' command to draw field stort and end markers muckly and then grees F7 to enter a formula Having agreed it, mass 'save and then 'next' You can then use this date seton nome to cherge existing

What's the best way to recover from disk errors an # s datebase?

Disk errors can happen on even the most espensive systems. Il you heve a problem with a detectage life asport. then 'import' it to a new database on a different disk. To selectively occuss such a file, go into the spreadsheet and twee years 'metch cottens' for the

Con we have a main detailed ann sown on the printe: support?

tionic parellel printers van its own easy use cable (available from Vize of E20 70) along with RS 232 prints is another cable Viza will also provide for the same suca. You can do high resolution screan dumps on Epson and Commodate printers. Although maltibar and pur graphs can be outputted to Epson and Commodore dot matris gusters, the CBM 1526/MPS 802 printers can't handle them as they don't have tree high resolution maghies.

Cheap'n'

Business software used to cost an arm and a leg. Now the Americans are selling it in supermarkets - and the trend is spreading to the II.K. We

test out the latest arrivals: Cut & Paste a budget wardprocessor for the 64, and the Load 'n' Go series of cut price personal productivity

mayed

Monu

ternon

the

software

Cut & Paste Wordprocessor

There are elready quite arough word processors around for the 64 So Flor. tronic Arts, makers of Eur and Faste. are taking a different tack to get you to part with your money. The program is being hyped as a remarkably easy' to nee nackees for first tweez -- "une can learn to non it in several menutes" it to be "the first sensible wordprocessor for the home"

Fence the title, the idea is that you can move text around samply by 'cat tmo' it and 'pasting it' elegabers sist like wellower. The problem is that the backaon

costs £24 95 and is everlable only on disk (from Armiesoft). So yon't need e disk drive end e reasonable display (not a tally) to make it all wanthwhile Anyway, if you wore to buy a copy yon would receive two disks fone for never lead the program, the other for date

of which is totally melevant to your seeingh to write off as a learning particular computer. The data disk contests several example fries, which the measures - ner is it most demonstrate translates such as how to enough to justify the price for in-Dissent a letter Cut & Peste uses en assortment of

at the bottom of the screen. This is no enseed by pressing the Escape' or "Backspace" key, depanding upon your micro. The cursor keys than streen the highlight from one commend to scother gions the command less, before a commend is executed by pressing 'Rutern'. Editing text is simple - words or chartles the black and goes on to claim pentances can be highlighted by prass mg 'Ctrl A' to fix the carser, and exten ding it name the cursor keys. This text is then cat and relocated anywhere as me the mont notice key. Text can be

cores from one document to enother and saved to disk before you print it not on a vacante of numbers There elso appners to be a "bug" in

the program which means that if you haves I not 'w' So has durded on a highlight comething to 'cut' it into the buffer end you hit the 'insert' key by mistake, year text will go off to never- of small bosoness packages range from

storage and a 28 page mannel, much between two steels. It's not nheap experience' and have fun with m vostment in herdwern) as a serious wardergrange

Cul & Paste · Ariolasolt 88 Long Acre Covert Gerden Lordon WC2E 8JH

Price: 924.95 disk only

Load'n'Go Software

Monowhile, another US softwara "sness" approach for its disk only soft were The plastic wronged collection e change-hook manager to a word All in all this program rather lells processor to an eddress book. These ere unembrimes packages at on seem brices price, £7.95, and they're distributed in the UK by Arges

> "Load 'n' Ge softwere gives nothing away Inxcept a disk) There's no manual so it's up to you to work out how each of the programs is separand

Softwere

· Home Finance Organizer, The smaln disk comes wrepped in a piece ol paper and stanled into a plastic wellnt, ready to hong with thousands of others on someone's andp well. Once loaded the program deall is just es smpin, but afficently presented A choice is given between three sections. - Address Keensy Checkbook Belancer and The Budgetnt

Problems start the marrient you select the Address Kauper agten. Bn fund enswers to the Street and City. bot I don't know my State |bot after looking at the rt was varong on m sone) and my Zip Codn The program has a nesty habit of lesing natres of you don't save them sumediately, but it will sort them and search for the first lew letters of any word

Checkbook Salancer simply keeps four seces of information about any tren socimes - the month day emerica



simple

Whoolwright

```
ASSISS & RECORD
last name and to abort antra
Mhers:
           & Palace Buildings
Citue
....
Ziponde:
Comptend
           FHRI AND
             don't know say Zipaodsill
```

Pro Finance Organiser: not quite right for British oddresses.

sed any remerks. This reformation is the same for deposits, withdrawals, writtee check, end trils. Each entry is ONES & eember on you can your each individually or ell at once tre chronological order) Neturelly the balance of your acopeet is celcelated automatically, and you can priet gut the details. But we care thew los exemple jest the deposits or just the titls

Frestly this Budgeter is an electronic shopping list for keeping records of the rtems you been bought end how much they cost. The program is brillent neough to add those valees en end well piret them out for you as well. Magic stelll

Pro France Organiser: Agare, this has three programs. The first is another check book belancer to keep details of writtee checks. The 'Pro' in the title must refer to its securety over the elerementared arrarem al the same seme. In eddnice to the deta. amount and deteils of checks, you cae enter the check nember end e budget cotoggy four expenses etc.).

Meil List Municipy is a ethicy for prieting address lebels. Stepsily at is ent. competible with Address Keeper so yee have to type out all the addresses you went to prost agare. The freel progrem is on electroesc calzeder for aexgiven month and year after 1752 essectful for those of you placened yeer holsdeys in the year 2000.

· Flactrunie Schudeler: On the same theme is the next program -Electroeic Schodeler, which lets you keep track of important appointments and special dates. It will store swetch and sort details by earne, date, tens. nerste. locatroe, subject and comments, and then gent out the details

The foeith program is a Home med Business Cent Frie - buomesses I assome referred to cer boot salas and the like it will store records of all your besieess coelects recleding names. titles, besieess types and thou addresses, telephoen numbers and peculienties! Samplicity is the key note as esuel, bet yoe can add, amend ned search through the records lest like the programs described earlier.

@ G'Resar The final mamber of the Home Menagement Series we tosted is 6'Base - yet another member of the seres actreg as a detabase, but et de 4 fers slightly in that you can define the remarks unwestelf. Once thes is done the some fections evelable in the other programs epply.

The Address Kneper, Med List Macroor and Hame & Busiesss Card Fide are assentially the same paggrams - but such has different lields for Es. detebase. The trick if you need e Price: £7.95 (disk only) detebese is to choose the peckenwhich best suits the details you want to keen e record ol, or create your own

records exten B'Bese eeless vite can efford e package which lets you choose the records. Several of the programs perform

tasks that are not really sected to comouters anyway - even the most complex calender propriets are not as eselel as the drary m your pocket, and to smapiny these programs to such e degree makes them verteelly useless Some of the progrems are writtee in Restricted to eresh and do not

processors good velue for money one sulscen that Immed leaters There ers other nackenes on the market which after more features et a sightly higher crice, but if you went to keep it you think you can lived a use for those somewhat elementery progrems, then by ell meens teke e closer look.

Also everleble in the serms are a and a Femily Tesa papprem.



· Load 'n' Go Senes · Argus Software Liberty Honse 222 Repent Street London W1 01-439 0666

Pro Financer Organiser contoins three separate progroms which must be looded separately.



TASWORD 64 THE WORD PROCESSOR 80 CHARACTERS PER LINE ON THE SCREEN!

A WORDPROCESS	SOR PROGR
Tasman Softwere Ltg	

L I Primates S I go per Lare Symptos Lare JC IL		fir loss barry of Germany I I peace recre, TRY of
3% Bouter (MI		
State Sees		
Saltiple for our lettle	A 12th Borman rescure as un	r frit to France un-

), I. Transpe 2 Septim Cort Common Common Call St.	le his hote of Assets for Assets force ID CE
States for sec letter of 12th Impacts manying up to the first, I first 12th the impacts of our first our first to the first of first the first out to the first section of the first out of the f	The second secon
(at it test at the steen to was at gave $k_i \delta \phi_{i+1}$, if $\delta_{i+2} \in S_0$ the off sect that phase for the same of a gar has the sect of the $\delta v_i \phi_{i+1}$	
Lives you and T dold on reminding you find you give that you also you then the first them of these safety and the safety and t	NAME AND THE

TASMOOD 64 HELR PADE
CURSOR CONTROL
AT STORT OF LINE AT ENG OF LINE
at start of text AM end of text at stort of line A2 end of line fi scroll up f7 scroll edwn aft fest scroll up Af7 fast scroll down
as start of terms and of text all start of text all start of time as a
FORMSTTING COMMADS
go move text left de peur text right
go move text left of peer text right on centre line of hard justify of our of unjustify line of justify line of justify ears
of posine on/off of insert en/off
TEXT FILE COMMANDS
& - ETEL . #2 for were help # = SHEFT
Pross ECTUSM to dot such to text file

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Computer •

Yes, we're back again for one more instalment of magical tricks and tips for the Commodore 64. We couldn't resist it. since you've been so busv sending us the magic gems vou've discovered.

Upside down

10 PRINT CHR\$(147) 20 FOR P=0 TO 83 : POKE 1024 + P.P.

30 POKE 55296 + P.14 : NEXT P 40 POKE 53272.29

50 POKE 56334, PEEK (56334) AND 254 60 POKE 1, PEEK(1) AND 251

70 FOR P=0 TO 511 STEP 8 80 FOR 0=0 TO 7

90 A(O) = PEEK(53248+P+O) : NEXT O

100 FOR 0 = 0 TO 7 110 POKE 12288+P+O.A(7-0): NEXT O

120 NEXT P

130 POKE 1, PEEK(1) OR 4 140 POKE 56334, PEEK(56334) OR 1

150 FOR 0 = 0 TO 7 : READ X 160 POKE 12288 + 160*8 + Q, X : NEXT Q

170 PRINT : PRINT : PRINT : PRINT 180 PRINT " UP-SIDE-DOWN" : PRINT

190 DATA 255.255.195.195 200 DATA 195,195,255,255

Upside Down Program

Here's a very useful program for people who like standing on their heads. Yes, this program turns all the letters in the standerd character set upside down and redesigns the CUISOF.

How does it work? Well, it prints the first 64 characters in the character set and designs a new character set by turning all these charecters upside down. Following this. the cursor character is redesigned and displayed.

Jain Andrews (age 13)

More or less

As you probably ell erithmetic expressions expression, whilst at know, the numeric ex- can also contein any of the same time providing pressions on the 64 the comperison a simple one line soluconsist of variable (= < >, <, >, < =, > tion to problems like names and values =) or logical (ANO, OR, this. erithmetic operators

separated by the NOT) operators as well. (+,-,*,/). Something gram gives a fairly com- month number end yeer. that is less well known, prehensive example of All you have to do is to however, is that the use of such a hybrid determine whether or

10 INPUT "DATE (DD, MM, YYYY)"; D,M,Y 20 F=(D>0)*(M>0)*(M<13)*(D<(32-{M + M < 8) ANO 1) + (M = 2)*(2+ ((Y ANO 3) = 0)))

30 IF F=0 THEN PRINT "IN": 40 PRINT "VALID OATE" 50 PRINT : PRINT : GOTO 10 More or Less Program

Take as input, a date The following pro- entered as day number, not the date entered is valid. For example 30,2,1978 is not a valid date because FE8

never contains 30 days. Line 20 below does all the work, I leave you

to sort out its operation.

Think of a number

There are many times. especially when dealing gram is designed just for ba useful to be able to numbers between any convert decimal two number bases in numbers to Hex and the renge 2 to 36. back or to binary and Rod Taylor, Bucks. back, or even octal

with machine code such tasks. In fact the routines, when it would program can convert

The following pro-

810 PRINT : INPUT "BASE IN" BI 820 INPUT "BASE DUT" BO 830 INPUT "NUMBER": NUS

B40 D=0 : FOR C=1 TO LEN(NU\$) 850 A = ASC(MID\$(NU\$,C.1)) - 4B 855 IF A > 9 THEN A = A - 7 860 IF A > = BI THEN 945

870 D=D*BI+A: NEXT C 8BO PRINT "ANSWER = " B90 B = INT(LOG(D)/LOG(BD) + 1

900 FOR C = B TD 1 STEP - 1 910 N = INT(D/BOHC - 1)} - INT(D/BOHC)*BD

+48 920 IF N > 57 THEN N = N + 7 930 PRINT CHRS(N): 940 NEXT C : PRINT : GOTO 950

945 PRINT "NUMBER BASE FRRDR" 950 INPUT "MORE (Y/N) OR (R)ESTART": NUS

955 IF NUS = "R" THEN 810 960 IF NUS = "N" THEN END 970 IF NUS < >"Y" THEN 950

980 PRINT : PRINT "BASE IN" - RI 990 PRINT "BASE OUT":BO : GOTO 830

Number Converter Program

On the border

You've all seen the drivan you can't use it flashing borders you get when interrupts are when turbo tapes are needed (loading, saving loading. Well the pro- atc). When you've gram below doesn't typed it in, RUN it and merely produce this pro- the mutine will install fessional effect, it lets itself at location you carry on programming whilst it runs. In just type POKE 788.0: fact, you can do just POKE 789,192. Here's about anything whilst the routine: it's running.

Since the machine- Dursley, Glas, code routine is interrupt Border listing

10 FOR C=49152 TO 49167; READ A: POKE C,A: NEXT C

49152. To activate it.

Andrew Tarski.

100 DATA 165,15,142,32,20B,202,208,2 110 DATA 162,15,142,1,192,76,49,234

Store vour routines

Over the past few mon- at any RAM address a lot of short machine put all your favourites code routines to per- together without them form several very useful overlapping. functions. Unfortunate. To use the program ly, the best place to put you need to know the

there.

This makes a routine they come up. difficult to move to

mamory together. This program is an at-

tempt to let you locate S. Stanhope, Grimsby, machine-coda routines

10 INPUT "CURRENT START ADDRESS:";S 20 INPUT "CURRENT END ADDRESS:":E 30 INPUT "NEW START ADDRES:":N

40 D=N-S : FDR C-S TO F 50 POKE C+D.PEEK(C): NEXT C 60 FDR C = S TO E : 8 = PEEK(C)

70 F=(B AND 12)=12 OR (8 AND 25)=25 80 IF NOT F THEN 130

90 V = PEEK(C+1)+256*PEEK(C+2) 100 IF U < S OR V > E THEN 130 110 V=V+D: POKE C+D+2,INT(V/256)

130 NEXT C Routine organiser program.

One-poke draw

Probably one of the shortest pieces of magic vet, it uses just one POKE (vas. one). to provide you with a dinky little drawing program. And here it is: **POKE 788.80**

When you've typed it in, in direct mode, just usa tha cursor keys to draw. Better still, you

ths we have seen quite you like, so that you can

machine code routines first and last location on the 64 starts at loca- addresses of the block tion 49152 - and near- of code you wish to ly everyona puts them move, and the start address that the block of Many of these coda is to be moved to. routines contain Once you have this inraferences to absolute formation, you RUN the memory addresses program and answer the within the coda itself, relevant questions as

You should make sure another location in that the numbers you memory so that it's not enter do not maan that possible to have all your the old and naw blocks favourite routines in of code ovarlap because there is no check made

120 POKE C+D+1,V-INT(V/256)*256

can change colour easily by using the CTRL and the CBM key with numbers 1.8. John Palmer, Devon.



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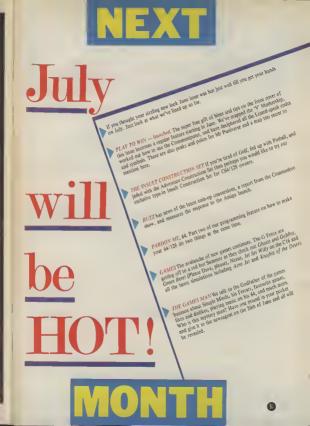
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Uncle Jim's

ast Thursday my nephew and nece. young Traver and Denise were coming to tea. so I thought I'd give them a hit of a surprise by rigging up a computerised doorball

using my Commodore of callers and, play e So if it was Ronnie the postman it would play "Hey, Mr Postmen" and for the window cleaner. When I'm Cleening Windows" But if my mother in-law preased the

programmed to play nothing at all. In the hope that she would eventually go eway. Lepent some tima scretching my head over how to construct it Than.

after clearing up the fellen dandruff. I sketched out a rough plan. The general principle of

riself. Whan the button wes Video camera treined on the transmitted to a digitiser, compared with a detabase of regular cellers' faces

relayed via e microphone through an old record player above the front door.

All this looked extremely how could I get it set up by tea time? The enswer, I decided, was to forget the TV camere, digitiser, computer end microphone for the time being, and

Implement e temporary semi-menual system. disconnecting the door bell. upsteire window to see

when anybody celled. As "Oh. legye it till Uncle Jim is full of bright ideas. He's always on the lookout for ways to use his beloved Commodore computer around the home. This month, he's had

the button, I would go end bellowed in a strenge but a suitable record on the

the toilet so that I could window and wetch for Denise and Trevor. To make sum they would be impressed I had stuck a COMPUTERISED DOORRELL

a particularly good idea . . .

At about half pest four, I dooretep. Dret. Seeing the notice, he put his aleases on, read it, put them away egain and range the bell. Of because it was

disconnected. What could ! do? I had to convince him reputetion es the village computer buff would go down the drain. Then again before the children turned UD.

As usual, I had a bolliant idea. Pinching my nose to make my voice sound like epeach, I called through the

looked up, end I dived down out of sight. "Whet?" he quened. "I seid, he's out. Please try later" There was a peuse, and I hoped he had

got the maceage and gone

"Well, when shell I come beck?" ceme his voice in my irritation, I forgot to pinch my nose.

tomorrow, can't you?" |

monotone. "I'm out until "Right-ho, Jim," he seid cheerily I wetched him do nick of time too because

Insteed they wandered ebout thirty seconds later However, as Trevor was about to ring the bell.

"Tea For Two" on the turntable end lowered the erm. Suddenly, there wes an appelling noise - like a teking no chences. I deshed shouting, "Run for your

Trevor end Denise ware completely unperturbed by listening to Motorhead on e dual-heedset Welkman

indpors and as I pertiously opporent that the noise was Of coursel I had ramoved get a replacement, and the



Denise grebbed his erm "Don't touch that," (heard her say. "Look et the stupid computer systems.

he knocked on the door inetead. I didn't guite know might as well go for broke and but the record on and, turning the volume on the radiogram right up, put copy of "Tea For Two"I Well, since this little setbeck, the development of

Doorbell Attechment (UJCDA) haen't bean going finel demende - muatn't forget to tell Postman Ron.

BANK MANGER is the composite flores according peckage for year computer. Monthly program has no less many according peckage for year computer. All you have it are according to the composite program of the composite program has been according to the composite program of
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TOMMYS

Portable problem

1 hove a Commodore SX-64 and have to travel 40 miles to get software an disk but if I had a data recorder and wanted software an cossette I would only have to travel 200 yards. Is there any way I can connect a dota recorder to

connect a data records my SX-64? Nik Jeffries, Wales.

The only convention I have seen to additive a data recorded to be suited with the SILG-U mohied making changer to the PCS and oding weedges to the ROM, not a jeb for the fast the best for Commodors even wear to the totallo of rescuring the code within econgress Device. I filter added to the code within econgress Device a lifer and the code within econgress Device. I filter added to the code of the code of the code within econgress Device as filter to resort to make force from the code in creat to the code for your drift or permodel your local dealer to corder them tool of the code of the

On the border

Baing o radio catchaur computers ploy o very imperator tells in any station. My next project is Amotisur high definition ralevision. It is populor nowodoys to generate test cards on computers, my problem is getting a test cord to fill the full screan! We have the computers in the household, of Cl6 and C64, generating test cords on the 10 is a suser with a suser cords on the 10 is a suser with a cord of so the 10 is a suser with a suser cord of the cords on the 10 is a suser with a suser cord of the 10 is a suser with a suser cord of the 10 is a suser with a construction.

the DRAW, BOX, CIRCLE

commands etc., but is there only way of getting into the border areas on either of these machines? There is nothing worse than showing a test card that just fills the centre.

Dave Shirley, Hostings.

I regret that there is no wary you can actually draw into the barder area man it does not occupy only part of the sureer memory. The only changes you will rise in the read of country or which in the part of the

interrupts

Unifier machines life the BBC, none of the Commodore displays occupy every mid of the crosen, on odvastage when some TM* Tose' either the log or bottom line of your displays. About the only thing you can do it to make the border the same colour or the background, but no drawling I'm strand.

Basic Alternative

I hove just stored to there mechanises do en my Playsik, and my problem is how do I get Information from the keyboard into my progress with mechanises of the mechanism of the my progress with mechanises of the my mechanises do progress to my mechanises do progress to my mechanises of the my mechanism of t

Commodore did produce o rather expensive (DS) photo-copied 'reference massial' for the 16 and Plus/4, olthough they may have risped doing it now "The treadout receives are file rate for both machine to day is manary map at the 10 will be triawn for the Plot of a well. Homeg rad that, there till ins't a great versity, about the only ording ons I know of being that Cel & 20 Mill Discreptiby and Using the CE, both by Peter Centrad and boil inling the soon among very coddresses. Perhaps it design pack as an a Reserv West book, but don't hadd your breath. On one or part of the perhaps well as the perhaps and the perh

might lind the following addresser of use

Current Key Pressed (LSTX) —

2038 SCNKEY Routine — 65439 (KERNAI Jump toble oddrest) 8 All vectors from 768-779 are some ar CBM 64 8 All vectors from 788 B17 are

some ar C6M 64

8 All vectors from 788 817 are
1 rame ar CBM 64 vectors from
790 819

Number cruncher

I'm learning to program
the Plusi's and I've met one
snag. In checking that one
number divides completely
into another in a series, one
uses (X – IN [X]) = 0. but it
does n't, it comes out as
.000000001 or
.000000007. By the way,
that's cessity out our by (X –

- 100000007, by the way, that's easily get over by (X -INT (X)) < .001. Does the Cammodare 64 or 128 also do this?

Also can you summarize simply the difference between the Plus/4 and the 64. A lat of BASIC works quite hoppily on both.

E.J. Thornthwaite, Narfolk.

The problem is a common cee and it does not he vay a which computers there sumber. Whole numbers (Integent) can be stored cosh loops by the plan or must 2706. However, when you note fronting point manher the storeging in gift between the part representing the sumbler and the part representing the first of the number (where the part representing the first of the number (where the common point will op). At a creatily, you can riter a much lorger range of number, but with a decinate in the effective

Using INT (X) will olways round to the nearest whole number to give a true integer value, but the floating point approblet will still be hald or the nearest approximation so you cannot use a test for equality.

All increacomputers suffer from this

problem, but there is a simple wa round it lestend of IF (X-INT (X)) = 0, use IF INT (X/Y 'Y = X, then if X is exactly divisible by Y the test is true, otherwise it fails. The works because you actually end up testing

integer with a flacting BASIC 2 0 used by the 64 Likewise the 64 has sprites and a much better but which don't exist at all on the use only BASIC 2.0 commands with

Fast and slow

Recently, I have noticed, that when I type in the command FAST on my C128, the screen goes blank, as it should in 4D-column mode, but when I type SLOW. sometimes | don't see the picture come back. Is there any reason for this? Help much appreciated! D. Allan, W. Midlands.

SLOW and FAST only chance the reason the 40-column screen is turned off is that the VIC thin that controls the 40-column screen can't run at the faster rate to Leep the screen typed SLOW correctly? I assume that you were typing blind since you after typing FAST, it is very easy to make a mistoke in this way and if you did the computer would register a synfax error, but not actually do

Also, it is perfectly possible to clear the screen and change the background and text colours when in FAST Made If these were both changed to the border colour then haven't done only of these things then you may have a fool on you machine and should get it checked out by your supplier

Plus/4 print

I have had a Plus/4 for over a year, and am daing

my 'O' level project on it. For them I need o printed sample run. I have tried proctically everything, but can not seem to print while running. Is there any way that I could keep the printer open? I have

on MPS 8D3. Simon Craghill, Worthing.

You don't say whether you are used machine-code or Basic, but 11: assume the latter. What you must do is to OPEN a channel for the printer e g 100 OPEN 4,4,7 which will gree you both upper and lower cose letters, and then use PRINT 44 to outcut to the printer. The following examples will print a strong and

200 PRINT A. 'THIS IS A TEST OF THE PRINTER 3DD FOR A = 0 TO 9 31D FOR 8=1 TO 5 32D PRINT: 4, DUM/8

+ (A ' S)); 33D NEXT 8-PRINT: 4 340 NEXT A In the latter case it will print 10 rows of 5 columns of figures from an orroy DUM (DIM DUM (50)) When you have finished all the printer output

Three for the 128

CLOSE 4

I've got three questions for you on my new C128. My first problem concerns sprites. When you've made a sprits and saved It with the SSHAPE command, you've then go your sprite in a string. Set how can I get the sprite into data statements, Secondly, how do I move the screen one

column to the right? And lostly, if I've got a screenful of text on the screen, how can I make mone options appear in windows without interfering with the text on the screen? Tord Mottsson, Sweden, The simplest way of printing the

volues for use in DATA statements is to domp the values in the Sonte out the values of the 8 sprites stored in the user registers, if you want more than 8 then you can just transfer the next lat of sprins in after the first 8 have been dunged. The list can then be typed in ofter the main listing with suitable line numbers odded.

To move the screen one full enforce to the right, type the following POKE5327D.PEEK15327010R7

POK E5327D, PEEK (\$3270) AND 248. (Bits 0-2 comprise the x-scrol he obsered in machine-code in smale

steps to give a smooth scroll if

To restore an area of the screen you must lirst save a before creating the window You need only save as large a portion of the screen or you wish to overwrite and this must be done in machine-code to be fast enough After you have created your wandow and added the text inside a you can recreate the original screen and remove the text in the window simultaneously, by copying back the anginal text to the screen memory

Doe't forget to reserve sufficient space for the largest window area. probably the best place shave Bosis

1D OPEN 4.4 2D FOR 5R = 0 TO 7: PRINT 4. "DATA ";: LT = 5

V = PEEK (3584+164-58) + LPI:L=LEN (STRS(V)) PRINT 4. RIGHTS

(STRS(V), L-1); :LT=LT+1 6D IF LT>75 THEN PRINT : 4: LT = 5: IF LP < 62 THEN PRINT #4, "DATA"

70 IF LT > AND LP < 62 THEN PRINT 4, CHRS(44): 80 NEXT LP: PRINT: 4 90 NEXT SR: PRINT: 4-

Key Beep

Now that I've got my really professional-looking C128, I'd like to make It behove like on expensive competer. Some of these have an option to make the keys beep when you press them. I can't seem to make this hoppen on my 12R using Basic. Can you help? You con't ran by others this usen

Basic, I'm afraid. In fact, you'll need to use interrupts and change the IRQ vector But let's not get too technical here's the mochine-code pragram you require, in the larm of a Basic

It produces a high patched beep when any key is pressed, except the CBM, Cantrol and Restore keys. You get a lower beep when you press Return or Enter

ID BEM KEY SOUND 2D FOR I = \$120 TO 5195 3D READ & 40 S=S+A

SO POKE LA 60 NEXT I 70 IF 5 <> 8932 THEN REGIN

SD PRINT "PERROR (SPACE) IN (SPACE) DATA" ON END 100 REMO

110 SYS 512D 110 515 5120 120 DATA 169, 255, 141, 6, 212, 141, 24, 212 130 DATA 169, 9, 141, 5, 212, 120, 169, 26 140 DATA 141, 2D, 3, 169, 20,

150 DATA 88, 96, 72, 165, 213, 2D1, R8, 24D 160 DATA 34, 2D1, 76, 208, 12, 169, 1D3, 141

12, 169, 103, 141 170 DATA 0, 212, 169, 17, 141, 1, 212, 208 180 DATA 20, 201, 1, 240, 240, 169, 103, 141

240, 169, 103, 141 190 DATA 1, 212, 169, 33, 141, 0, 212, 169 200 DATA 17, 2DR, 2, 169, D, 141, 4, 212

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Mike Pattender

together for Hotshots year? And let's plange straight into the hard ower • Meanwhile over in this country the alement of this month's column — effects of the raid are being left in we're going over to Mike Pattenden in software houses System 3 were forced

would no right over the top with a there was going to be a bomb - so a

else ahould do rt hut crazed Republican Wild Bill Steeley, First ha one better. He's updated a section of F-15 Strike Engle that allows you to fly | Chemobyl Disoster!

Eight, atop tallings and par eftention at 1 them. When Widd Bill trand to run an

Statisting with bibercoast for a while

Eight and the bard them, rife time once against for all offer it in the flow York Times the Joseph. The communication's network bearly availed C15 table Witter than colours that thou this world, they input reported by the same it was in it is described in the following that follows the product of the world, they have reported by these care it was in it is described by the other party before the party before the product of the product one they're so arhamed of that it has to poor taxte. Nevertheless sales eco oo at the back. Pet your hands increasing, Nice one Bill .

Garden after a bomb scare. Shortly . Thank you, Alistan, and as the alter this industry ongas CIW carried shells rare down here I've important a story about a member of Activision news I've been predicting someone who refused to go to Healthow because

> this was indeed true. However, the Brown, Amolesoft's Technical passon who refused to go was some. Assistant has given up has not and other than editor Greg Ingham. Crees taken to the bottle He's going in to bar and Wharpers of Lies and Whoppers, management down in Bourgemouth.

to evacuate their offices in Hallon this. He's remains a moral crusade stin.

came and now they have And who manor had to be sent meterd. Some of . Now for a july most story Citys

the Lislow Kinderourtee cry

Gibbo goes straight. On the left you see the original wild headbanging look as modelled by programmer Tary Gibson last year. And now on the right you see the ofter. After what? Well ofter financial consideration really. Tony, who co-wrote Secrete Special and Ghettoblaster, decided he needed a change of image for business purposes. (Are you reading Jeff Tony and partner Mark Rarrison have a new biggle on the way

· Staying with the column's up-to-the- | than 'The Commodors' Blimey, wot a minute topicality Masterfronce are coincidence s's a small world innit atc. feeling slightly red faced at the etc ... unfortunate title of their current MAD hit Countdown to Melidown. A . My thanks to the PPLO (Pet Person.

French Embersy and the various questions of all that is decent in this day you would be wrong. The gam civilian sitis the Americans hit are life, and so avid EmfEnders fan, har - in a manner of speaking Ocean * This has been Mike Pattendes for included, but I doubt if they're in missed her balled appearance or inqued up a mail order deal with a Hotabots in Tripoliumbli sext mostle.

This is the end result of a mammatk three hour photo session. Brillians

isn't it? Apparently these people are responsible for Melbourne House's Redikawi game. The woman P.C. in the picture used to be a real policewomers. Now there's on interesting fact for you

the game's late?

Micronet's Chariline, A Micronet staff member phoned up to find out what Christines last year It duly opposited was wrong pale to be told she was in to all who ordered, although it turned bed with her husband. She was in fact, out to be a platform game. Who says

Som Fox, the matten's lavournie gal, Gold forced changes on Amrog for an on-screen appearance Sort of because of ris similarity to Wood's live Strap Poker Winter Games. A startled Mr. Gupta.

. No doubt sadustry megamouth pressed said "I don't think that's any Bruce Everies will be shocked to hear equant the BT owned company's Goyline lectify Barsous has it that the Europe at BT are out to get him between Elite and Alligoto The latter

thrifty Steve Wilcox up They've

catalogue company for the came at

boss of Anarog demed this, but when

of your business "But it as Mr Gupta,

· I can see more trouble brewing

company seem determined to wind

released Bombo an arcede name

Elrie's Bombjock Elrie are currently Elite stopped Alligate putting out the brought out Confine' in Vietnam is an external to the plan to present the second of the plan to the plan to present the plan to plan t call the game back to sename if it was a bit long Besides it would make by September the case gets dropped - at which point Albigata will

probably make a counter claim Sorry with Qeddelfs command castles • Fancy a bit of chr and innecede? • If you were under the supression to hore you there, but I do him to brep uncluded. There is no mester if the Try thin one, then Mary Whitehouse, Streetfow's had not seen the hight of you unformed



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